### **YEAR 11**

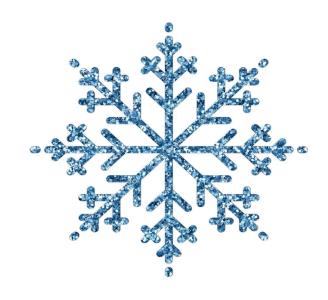
### BHA's

### Knowledge Quest

Autumn 2 (Nov - Dec) 2025-2026







### How to use your Independent Study Booklet

To support you in making progress in each of your lessons, your teachers have produced knowledge Organisers which contain all of the main facts, knowledge and information that you need to know to be successful and make progress this half term. There are lots of ways to use these Knowledge Organisers, but the most important thing is that you are revising the knowledge and

you are able to recall it in your lessons. Please see below details of how to use this booklet; what your half termly homework looks like and how to secure lots of positive Class Charts points!

**English:** 1 Seneca assignment set per week (alternating between Language and Literature). Sparx Reader will be used to accompany the reading of Literature set texts. Additional revision may be provided by individual class teachers.

<u>Maths</u>: 1 hour of Sparx Maths, individualised homework set every week. Pinpoint booklets provided following assessments and additional revision provided by class teacher, where appropriate.

**Science:** 1 hour of Seneca homework, set every week.

<u>MFL:</u> 1 hour of vocabulary / listening / reading practice on Language Nut every week and 30 minutes of learning vocabulary, ready to be quizzed in the following lesson.

<u>History:</u> 1 hour Seneca assignment set by class teacher, every week. Recap content using Knowledge Organiser and when provided, complete practice exam questions.

**Geography:** 1 hour Seneca, each week. 1 x Core vocabulary booklet, using OMG revision across the year.

<u>**DT:**</u> Engineering: Seneca - core knowledge recap, as well as flip learning resources, both printed and or on teams. Reading and comprehension tasks with booklets on teams. Hospitality and Catering: Yr 11- revision workbook, revision tasks set on Teams. Re-cap content using Knowledge Organiser.

**Art:** To complete/refine work for portfolio or set task projects when required.

**Computing:** 1 hour of Smart Revise. Individualised homework set weekly, based around previously taught topics and current topics.

**Film Studies:** The 15 or 10 marks 'Explore' exam question which focuses on an aspect of film language.

**Sociology:** 30 minutes of Senneca homework per week or an exam style question.

**Sport:** Year 11, 1 hour of exam revision from the revision guide & resources in Teams.

<u>Child Development and Health & Social Care:</u> Year 11, 1 hour of exam revision from the revision guide and resources on Teams.

All other subjects: Revise the information in this booklet using the revision sheets included with each subject.

### **Timetable**

### Use this page to copy out your lessons and room numbers

	W1 Mon	W1 Tues	W1 Wed	W1 Thurs	W1 Fri	W2 Mon	W2 Tues	W2 Wed	W2 Thurs	W2 Fri
1										
2										
3										
4										
5										
6										

# Enrichment and Intervention 2025-26

Autumn Half Term 2	Term 2				
Breakfast	Monday Start Right Club	Tuesday Start Right Club	Wednesday Start Right Club	Thursday Start Right Club	Friday Start Right Club
7.45am – 8.30am	Library open	Library open	Library open	Library open	Library open
	MUGA Year 9	MUGA Year 11	MUGA Year 10	MUGA Year 8	MUGA Year 7
12.45pm –	Library Year 11	Library Year 10	Library Year 9	Library Year 8	Library Year 7
mdet.t	Yr 7 Table Tennis LG	Yr 8 Table Tennis LG	Yr 9 Table Tennis LG	Yr 10 Table Tennis LG	Yr 11 Table Tennis LG
	Yr 7, 8, 9 Keyboard club- Room 36 SW		All Years Vocal Group /Choir Room 36 SW		
Period 7	Year 11 Open / MFL Subject Intervention	Year 11 Science Intervention	Year 11 English and Maths Intervention	Year 11 Geography /History Intervention	All years Dungeons and Dragons (MB)
Thursday	Week 1. Week 2.	All years Table tennis (Large Gym) GH	Year 7/8 Trampolining (Small Gym) KHA	Year 7 Football (Field) NK	Koom 5 Yr 10/11
5.30pm -	Year 9 football (Field)	All years Basketball (MUGA) WT- New	All years Table tennis (Large Gym) WT New	All years Legacy cohort Latin Club Room 60 AA	Engineering coursework catch up intervention- By
	All years Chess Club -	Year 7 and other	Year 10 Football (Field) NK	All years Netball	Yr 10/11Textiles
	All Years Debate Mate	beginners Laun Club Room 60 AA	All years Dance Club (Dance studio) JR	(MUGA) GH New Year 9/10	coursework catch up intervention- By invitation only
Wednesday Friday	Koom 23 BED Spary Mathe Club =	Year 8 football (Field) JS	All years Board Game Club	Trampolining (Small Gym) JS	NB/KWK
2.35pm - 3.35pm	Room 15 DHY / RMI	All years Dance Club (Dance studio) CG	Koom 55 AK	All years The hook and	
	All years Table Tennis (Large Gym) NK	All years Hooked on Bristnall	All years The Rep Theatre - Performing Arts Club Room 16	pen society Room 53 JW/LOM/ADI	
		Docum 52 1W		All Vocas Carabias alub	
	All years Girl's Football (MUGA) IS/NW- New	Room 53 Jw All years Beyond the	All years Geography Club Room 2 SBW	All rears Graphics Club KWK 43	
	All years Task Master	Books (Reading Club) Room 24 FH	All years Ultimate Uno	Year 7,8,9 Music Rock Band- Room 36 TW	
		All vears Digital skills	Club Room 23 QSM	Russian Language Club	
	All years Science Club Lab 49	Room 30 MCA	All years Scene Stealers Filmmaker Club Boom 22 DLA	for beginners Room 58 RMI	
	SAM/BHU/KHA	36 SW	27 77 11000		
	Year 7 – 9 Masterchef Room 45 (limited to	Basketfields Booster for Year 10 English	All years Act Up! Drama Club Room 24 SBS		
	CCR/MSH/PCR SEND	Room 23 FBA Masterchef (SEND) Room 45 CCR/MSH/MCS	Yr 10 GCSE Computer Science students only: Programming practicals Room 62 IM		
	ADI/LOM Room 2	SEND Y8 Reading Intervention ADI/LOM 33	Yr 10 iMedia students only: coursework catch-up Room 10 HA		
			All years- The Articulators Board game articulate for kids RBi/ROOM 38		
			Year 7, 8,9 Girls Football WBA		
			SEND Social Society CCR/CST Room 1		

Academic	Creative	<u>Physical</u>
☐ Task Master (will meet all	☐ Task Master (will meet all parts	☐ Task Master (will meet all
parts of the diploma)	of the diploma)	parts of the diploma)
☐ Latin Club (new and legacy	□ Scene stealers film maker club	□ Football
co horts)	☐ Act up! Drama Club	☐ Table Tennis
□ Chess Club	□ Ultimate Uno	□ Basketball
☐ Sparx Maths Club	☐ Hooked on Bristnall - Crochet	□ Netball

SEND
Y10 Direct Instruction Lit
- JPG Room 3

SEND Homework Club JRE/MPA Room 31

SEND WBA Multisports/Football LK

co mores)	☐ Act up: Diaina Ciub
☐ Chess Club	□ Ultimate Uno
☐ Sparx Maths Club	☐ Hooked on Bristnall - Crochet
☐ Geography Club	club
☐ Science Club Lab 49	☐ The hook and pen society
☐ Debate Mate	☐ The REP Theatre Performing
: ::::	

- 'Beyond the Books' Reading Club

- Beginners Any other subject intervention

- Arts Club

  Board Game Club

  Craphics Club

  Digital Skills

  Rock Band

  Lunchtime keyboard cub

  Lunchtime vocal choir

  Masterchef

  The Articulators

- Trampolining Dance

### Dates to remember this half term:

November <u>December</u>

### Attendance record



Week	Attendance %
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	

### Remember to click: 'Login with Microsoft' using your academy email address and password!

## Sparx Check!

In the boxes below, write the XRP score that you achieved for each subject. Your form tutor will award you additional CC points for the more XRP points you achieve in addition to the set points for each weekly homework.

	Sparx Reader Points:	Sparx Maths Points:
Week 1		
Week 2		
Week 3		
Week 4		
Week 5		
Week 6		
Week 7		
Total this half term:		

### Seneca Check!

Remember to click: 'Login with Microsoft' using your academy email address and password!

In the boxes below, write the titles of the assignments that you complete for each subject and your overall percentage scores. Your form tutor will award you additional CC points for the highest percentages you achieve in addition to the set points for each weekly homework.

	English Assignments:	Science Assignments:	History Assignments:	Geography Assignments:
Week 1				
Week 2				
Week 3				
Week 4				
Week 5				
Week 6				
Week 7				
Total assignments completed this half term:				

## Language Nut Check!

Remember to click: 'Login with Microsoft' using your academy email address and password!

In the boxes below, write out how many points you have achieved from your weekly homework. Your form tutor will award you additional CC points for the highest scores you achieve in addition to the set points for each weekly homework.

	MFL Homework:
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	
Total assignments completed this half term:	

## Independent Study Check!

Your form tutor and your parent/carer will also check that you are completing your independent study within this booklet. Additional positive CC points will be awarded for beautiful presentation and your ability to demonstrate a strong recall of the knowledge within this booklet.

	End of Half term Form Tutor Check:	Parent/Carer Check:
Independent Study Completed?		
<b>Beautiful Presentation?</b>		
Recall of Knowledge?		

<b>Personal Reflection:</b> What are you most proud of within your Independent Study Booklet?				

### **Homework Log**

### Use this page to record any homework this half term

Subject	Date Due:	Additional Notes:

### **Homework Log**

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Subject	Date Due:	Additional Notes:

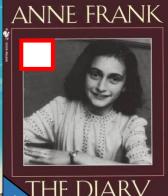
	Look, Cover,	<b>Definitions to Key</b>	Flash Cards	Self Quizzing	Mind Maps	Paired Retrieval
	Write, Check	Words				
Step 1	Look at and study a specific area of your knowledge organiser.	Write down the key words and definitions.	Use your knowledge organiser to condense and write down key facts and or information on your flash cards.	Use your knowledge organiser to create a mini quiz. Write down questions using your knowledge organiser.	Create a mind map with all the information you can remember from your knowledge organiser.	Ask a partner or family member to have the knowledge organiser or flash cards in their hands.
Step 2	Cover or flip the knowledge organiser over and write down everything you remember.	Try not to use your knowledge organiser to help you	Add pictures to help support. Then self quiz yourself using the flash cards You can write questions on one side and answers on the other.	Answer the questions and remember to use full sentences.	Check your knowledge organiser to see if there were any mistakes with the information you have made.	They can test you by asking you questions on different sections of your knowledge organiser.
Step 3	Check what you have written down. Correct any mistakes in green pen and add anything you missed. Repeat.	Use your green pen to check your work.	Use a parent/carer or friend to help quiz you on the knowledge.	You can also use family to help quizyou. Keep self quizzing until you get all questions correct.	Try to make connections that links information together.	Write down your answers.



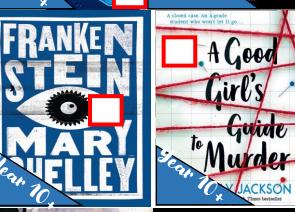




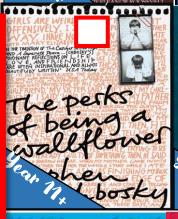


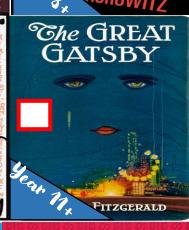


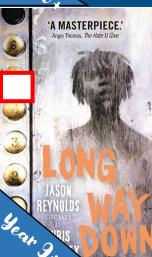








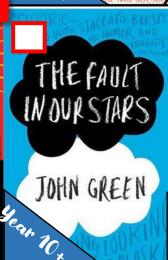












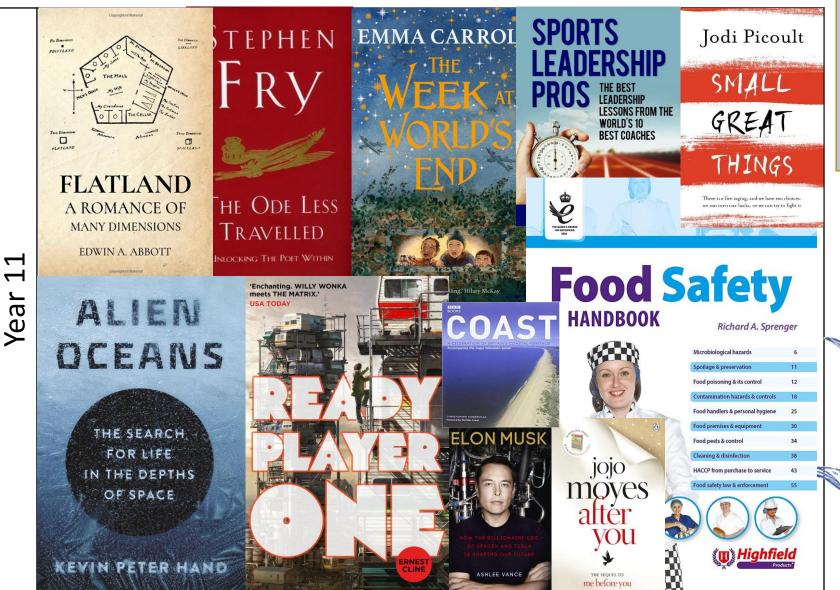


# Contents page

Subject	Page
Further Reading List	1
English	2-4
HEXAGON THINKING	5
CLOCKING UP QUOTES	9
Maths	7-8
Science	9-11
PARENT/ CARER QUIZZES	12
MFL	13-20
History	21-22
Geography	23
RETRIEVAL PRACTICE	24-26
Art	27
Engineering	28-33
Textiles	34
Catering	35
A-Z RETRIEVAL PRACTICE	36
Sports	37
Dance	38
Health and Social	39
ROLL-A-DICE- REVISION	40
Business Studies	41
Computer Science	42-44
Film Studies	45-49
Music	50
Child Development	51
Creative iMedia	52
MIND MAPS	53
KEY WORDS	54
VOCABULARY	55



### Further Reading List



Challenge yourself by reading these topicrelated books!



### UT P2 AN INSPECTOR CALLS

### Knowledge Organiser

### Act summary

Act 1

The Birling family are celebrating the engagement of Sheila Birling to Gerald Croft. Inspector Goole arrives and tells them a young woman has committed suicide. The audience learns that Arthur Birling (the patriarch of the family) sacked the young woman (Eva Smith) but he is unremorseful. Sheila then got Eva sacked from her next job at a clothes shop due to being jealous. We then learn that Eva changed her name to Daisy Renton. Gerald is startled when he hears this name.

Act 2

We discover that Daisy was Gerald's mistress for some time but Gerald broke things off and turned her out. Sheila hands Gerald back the engagement ring. The Inspector questions Mrs Birling and Sheila forcefully encourages her mother to be honest and open. Eva/Daisy turns to the charity Sybil runs when she needs support for her unborn child. Mrs Birling shows no remorse, instead she says the girl tried to use the Birling name. She condemns the father of the child. Erica enters at this point.

Act 3

Eric confesses to having sex with Eva/Daisy when he was drunk. He reveals how he stole money from his father's company to support Eva and her unborn baby. The Inspector reminds the Birling family of their social responsibility and then leaves. Gerald returns and tells the family that the Inspector is a 'hoax.' The older generation and Gerald rejoice. Sheila and Eric are shocked that the others haven't learnt anything. A phone call at the end reveals a woman has committed suicide and an inspector will be visiting soon...

### Themes – A theme is an idea or message that runs throughout a text.



All the family are forced to reflect upon their behavior towards Eva Smith/Daisy Renton and consider how responsible they are for her death. Some characters accept **responsibility** and feel **guilt**. On the other hand some are unwilling to accept any. 'We are members of one body. We are responsible for each other.' The Inspector's final speech.



Class **defines** each character in the play. There is a clear **hierarchy** in the class system that causes **oppression** of the lower class. The actions of the upper class directly **impact** on those below.

'If you don't come down sharply on some of these people, they'd soon be asking for the earth.' Mr. Birling.

Gender

Throughout the play there is evidence that a woman is to be seen and not heard. The males hold a lot of **power** at the start. Eric's and Gerald's treatment of Eva/Daisy as an **object**. Young women challenge this (Sheila) and by the end **stereotypes** are beginning to be broken.

'...not only something to make 'me look prettier - but - well, a sort of sign or token of their self-respect.' Mr. Birling discussing women.

Conflict among generations

Priestley uses age to show the **different attitudes** in society at the time. The older characters represent **outdated** ways of thinking; Sybil and Arthur believe in only looking after themselves. The younger characters represent a move towards caring about others in society.

'You're beginning to pretend now that nothing's really happened at all.' – Eric speaking to his parents.















### Context

J.B Priestley: The writer of the play and a social commentator who has a social conscience. A popular figure and keen supporter of social reform. He fought in World War I and saw the effects it had on the working class. During the 1930s he became an activist, campaigning about the effects of social inequality in Britain.



Pre and Post-War: Before WW1, there was an air of complacency that a war would actually break out, despite there being numerous strong hints. There were strong distinctions between upper/lower classes and women were subservient to men. After the WW2, the class distinction had been greatly reduced. Women had formed a more valuable and respected place in society. There was a greater desire for social reform.



**Capitalism:** Capitalism is where businesses aim to make money and a country's trade is owned by private companies/people. It is generally considered the opposite of socialism. Priestley deliberately criticizes the **selfishness** of this system and wants a fairer society. **Birling personifies this.** 



Social and Moral Responsibility: Attitudes towards social and moral responsibility changed rapidly in the time between when the play was set (1912) and the time when it was first performed (1946). In 1912, the general attitude of those with social and economic sway was towards looking after oneself and one's family. By the mid-1940s, however, Clement Attlee's Labour party won a landslide election, reflecting a wave of enthusiasm towards communal responsibility for everyone in society.



Socialism: Socialism is an approach to economic and social systems that is characterized by social ownership, democratic control, and high levels of equality. They're generally concerned with ensuring that inequalities between wealth and class are erased. In the play, the Inspector harbors socialist views.



**Titanic:** RMS Titanic the largest British passenger ship at the time. It was a symbol of **progression** within society. It sunk in 1912 after striking an iceberg. It was one of the deadliest maritime disasters of the modern period and sent shockwaves around the world. It was supposed to be the pinnacle of comfort and safety and was frequently labelled **'unsinkable'**. However, during the disaster it was discovered that there wasn't enough lifeboats and the lower-class passengers were last to be given the chance of escape. Consequently more of these passengers died. It is worth remembering that Arthur holds the arrogant views of that many others did of the Titanic before it met its demise.



### **Genre and Conventions**

**Well-made play:** This is a popular type of play from the 19<sup>th</sup> Century where all the events **build up to a climax**. It is primarily concerned with events that happened before the play. The plot is normally **intricate** and **complex**.

**Morality play:** This would be a play that **taught** the audience lessons that linked to the **seven deadly sins** where characters that committed these sins are **punished**.

### **English**

of war.'

### **Assessment Objectives**

AO1: Response to question and use of quotations;

<u>AO2:</u> Analysis of writer's methods using terminology and the exploration of the effects on reader;

AO3: Context and links to genre/themes;

AO4: Vocabulary and SPAG.

Main Characters – Consider why Priestley included these characters. What is <u>purpose</u> in the play? What might they <u>personify</u>?



Arthur Birling is the patriarch of the Birling family. His success in his business means his family live in the <u>upper-middle class</u>. He believes in **capitalistic** principles and rejects socialist beliefs. He considers Sheila's engagement **good for business**. 'And I'm talking as a hard-headed, practical man of business. And I say there isn't a chance

Sybil Birling is often described as being a 'cold' character and is her husband's 'social superior.' She is more concerned in ensuring her family does not 'lose face.' She also serves in a charity committee that's aims are to assist women who need help.

'She was claiming elaborate fine feelings and scruples that were simply absurd in a girl in her position.'

Eric Birling: Eric works for his father and has a

getting 'squiffy.' He is 'half shy-half assertive.'

Only once all of his issues have been revealed

drinking problem as he spends his time

<u>Sheila Birling</u> is the first character to accept responsibility and show remorse. She is childish at the start of the play but grows in maturity. Sheila takes on the role of the inspector, holding her family to account, once he departs.

That's what I meant when I talked about building up a wall that's sure to be knocked

are his family force to address his issues. He stands by his sister, Sheila, at the end.
'I don't know - really. Suddenly I felt I just had to laugh.'

Inspector Goole is an omniscient character that seems to know all the answers before

interviewing each character. He is in command

of the situation despite others trying to put

him off. He acts a Priestley's mouthpiece.

massiveness, solidity and purposefulness.'

'He creates at once an impression of

Gerald Croft is the fiancé of Sheila and comes from a prosperous, well-know family. The Inspector criticizes Gerald's affair with Daisy but suggests Gerald is the least culpable for her death. Gerald goes out of his way to save his skin at the end suggesting his capitalistic views are entrenched and will not learn from his mistakes.

'The girl saw me looking at her and then gave me a glance that was nothing less than a cry for help.'

<u>Eva Smith/Daisy Renton</u> is a young, working class woman, who is very important to the play, yet we never meet her. Her gruesome death is used to exploit the harsh treatment of the lower classes.

<u>Edna</u> is the Birling's maid and the only working-class character we see on stage.

### Critical Verbs

Priestley wrote because he was influenced by what was going on in the world he was living in. <u>Society, religion, politics, family</u> and <u>personal experiences</u> and <u>beliefs</u> will all have impacted on **what** Priestley was writing and **why** he was writing it. Use the structure below to create points.

Writer	Uses	Character/setting/event	Critical Verb	Theme/concept/context
Priestley	uses	Arthur Birling the Birling's home the death of Eva Smith	to advocate to criticise to celebrate to warn to teach to expose to personify	the need for more social responsibility in a post-war society.

### Symbols and Killer Quotations



'As if we were all mixed up together like bees in a hive - community and all that nonsense.'

- · Simile exploring the Edwardian social structure.
- Bees produce honey. Is Priestley saying the product of socialism is 'sweet'?



### 'Unsinkable, absolutely unsinkable.'

- Like Mr. Birling's narrow-minded views? He won't be swayed and his views are 'unsinkable.'
  - Microcosm of society on board.
  - Society is doomed to 'sink' if people don't change.
    - Dramatic irony.



### 'She'd swallowed a lot of strong disinfectant. Burnt her inside out, of course.'

- · Disinfectant is used to clean and eradicate germs.
- Eva/Daisy being seen as something needed to be 'cleaned' from society. Is this how she sees herself by the end of her encounters?
  - · Link to the 'fire' mentioned in the Inspector's final speech?



### The unborn child.

- · Would 'merge' two classes together.
- He would be a Birling and the 'future' of the family. What does it say about their future?
  - Impact on the innocent in society. Doomed from the start?



### 'Fire, blood and anguish.'

- Divine retribution.
- Foretelling the war. Does the Inspector know that the audience has not changed?
  - Hell? Punishment for sins.

### Threshold Concepts



### Time Theories.

**Dunne** believed we could begin to see forward in time through our dreams. We could look at our present actions and see the consequences of them. These would allow us to change.

Ouspensky believed that when we die we re-enter our life once more from the beginning. We are born again to the same parents and continue to repeat all the events of our life as before. We can escape repetition by improving ourselves and leading better lives.



### Seven Deadly sins and virtues

Each character represents one of the sins (pride, lust, gluttony, sloth, avarice, wrath, envy). Eva/Daisy shows more virtues than the Birlings do.



### Representation of women

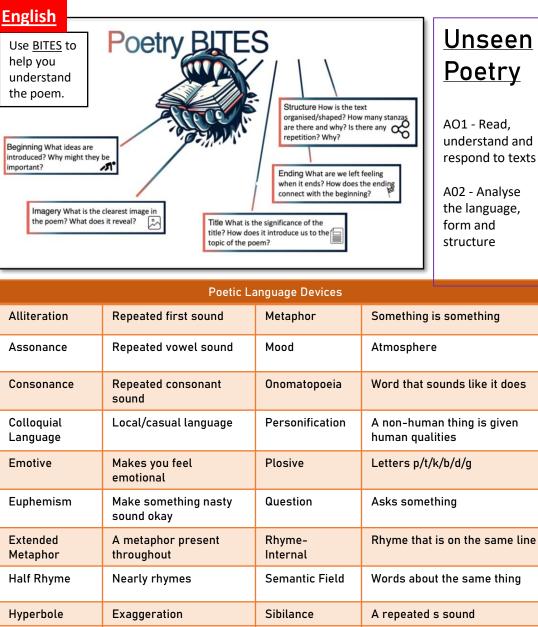
Suffragettes (violent and aggressive) and suffragists (peaceful) were political groups focused on achieving power for women and the right to vote.

Consent to sex is something Eva/Daisy doesn't seem to give during her encounter with Eric. Priestley doesn't not class this as a sin for Eric. Raises questions about misogyny in society.



### Social conditionin

Social conditioning is the sociological process of training individuals in a society to respond in a manner generally approved by the society in general and peer groups within society. The social context that Mr and Mrs Birling grew up in, is not that different to that of their children Eric and Sheila, yet JB Priestly had the latter two reform by the end of the play.



creates a mental image

in the reader's mind

Sarcasm

Simile

Symbolism

**Imagery** 

Irony

### Unseen **Poetry**

AO1 - Read,

understand and respond to texts A02 - Analyse

the language, form and structure

Comparison using like or as

Something that represents

something else

Ballad Story poem Blank Verse No rhyme In the shape of the subject Concrete Poem Dramatic Monologue

Autobiographical

Stanza/Verse

Volta

Speaks to the reader Tragic/heroic story poem (long)

Epic Written as 'I'/He,She,They First/Third person Free Verse No regular rhyme/rhythm Emotional/beautiful Lyrical

Narrative Tells a story Ode Lyrical poem to one person Sonnet Love poem

Poetry- Form

About the poet

### Poetry Devices- Structure Anaphora/Epiphora Repeated first words/last words on a line. Chronological Time order

Caesura A break using punctuation Run on lines. Eniambment

lambic Pentameter 5 beats in a line Contrast Juxtaposition Layout Position of lines on the page

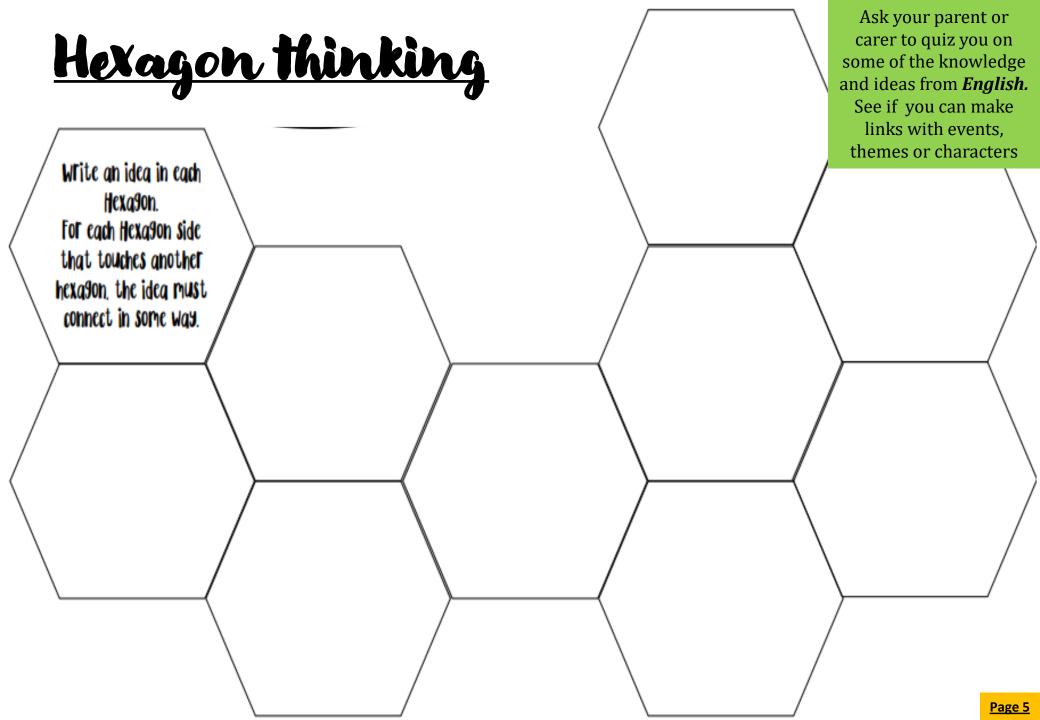
Repetition Repeated words/ideas Rhyme Scheme Organisation of the rhyme

**Rhyming Couplet** Two lines that rhyme Rhythm The beat

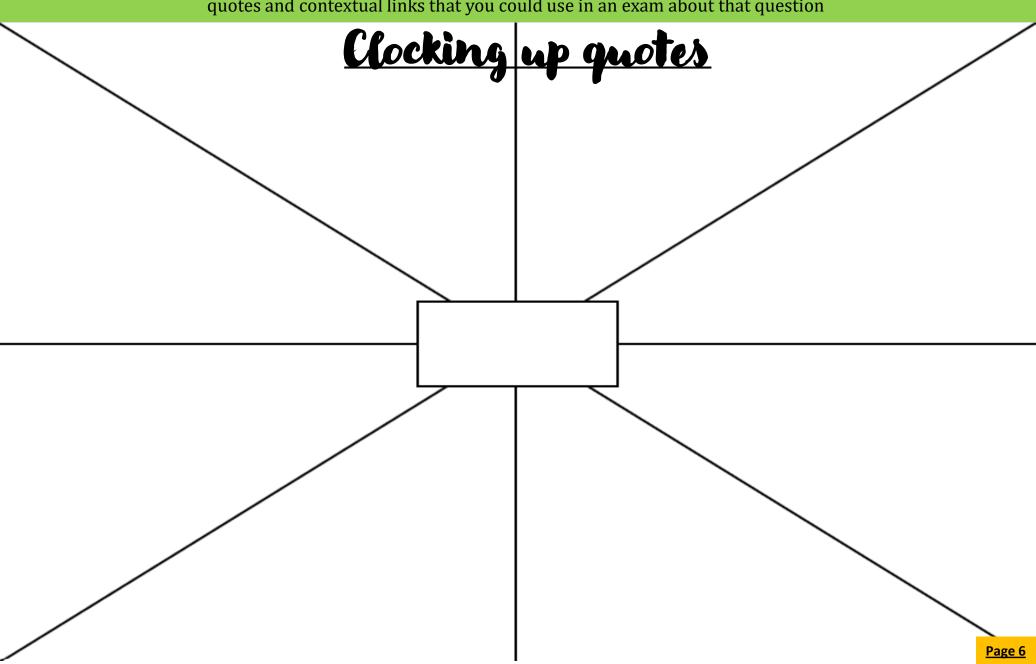
Paragraph

**Turning point** 

Page 4



**English.** Choose what text you would like to revise and write that in the middle (e.g. Macbeth). Each section on the clock can either be a theme or character focus (e.g. Supernatural/ Banquo). Once you have decided on the focus, make notes including key quotes and contextual links that you could use in an exam about that question

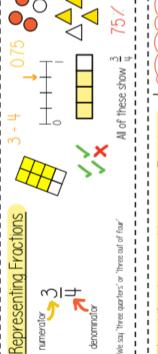


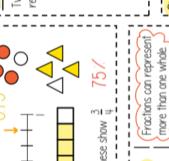
What do I need to be able to do? You should be able to:

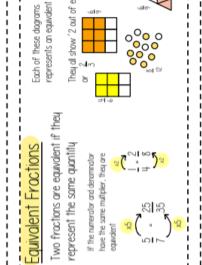
- Understand different representations of
  - Fully simplify fractions fractions
- Recognise and find equivalent fractions
  - Convert between mixed numbers and improper fractions
- Add/subtract any fractions
- Add/subtract mixed numbers

### Keu Words

- <u>Numerator</u>: the top number of a fraction
- Denominator: the bottom number of a fraction Equivalent of equal value
- Mixed Number: a number with an integer and a proper fraction
  - Improper Fraction a fraction where the numerator is larger than the denominator
- Coprime: two numbers which share no common factors (except 1)



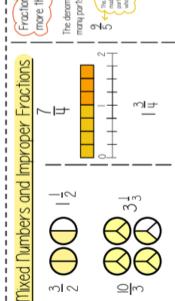


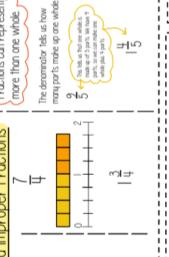


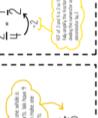
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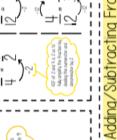
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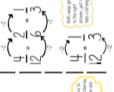
'2 out of every 3'





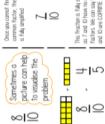






u fractions if upu can	Once you cannot find a common factor, the fraction is fully smpffed
You must always simplify yo	Sometimes o picture can help to usualce the
tions	
Frac	ءَر <sup>=</sup> اء





# Fractions

213

0

 $\gg |\pm|$ 

8

Common denominators

Fractions

Adding/Subtracting

215

Common multiples

10 IO 
$$\frac{4}{4}$$
10 is a multiple of 5 | [2 is a multiple of 5 | 2 x 2) so, using  $\frac{4}{5}$  =  $\frac{2}{10}$  we can saw early  $\frac{2}{5}$  =  $\frac{2}{10}$  we can sa

**≠**|0

**≯**| ∞

2018

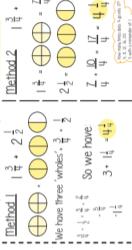
912

ow that 2 and 3 ultiple of 6, so v	8 - 9 - 9
Here, we kno a camman m say:	3 · th
	3 th th

# Adding/Subtracting Fraction

~I3 #12 #1# -1 L

- We need to find a common denominator using equivalent fractions
- 45 ÷ 16 2
- 73 333



Adding/Subtracting Mixed Numbers

Different denominators

2 12

 $\approx$ 

You must always fully simplify you fractions

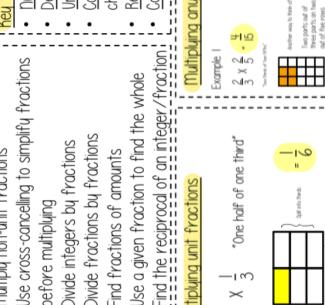
Remember that the denominator doesn't change

What do I need to be able to do? You should be able to:

- Multiply unit fractions
- Multiply non-unit fractions
- before multiplying
- Divide fractions by fractions Divide integers by fractions

  - Find fractions of amounts
- Use a given fraction to find the whole
- Find the reciprocal of an integer/fraction

### "One half of one third" Multiplying unit fractions -1 %



	er of numb vith a e ord of a of a hich s	j
	numb titom vittom vittom vittom vittom vittom ving the ing the second se	<u>-</u> .
	e top the board fraction of the board at fract	x lb
	rator: the top nuralization: the botto raction: a fraction utative: changing to the result rocal: the recipror ne: two numbers to the two numbers the two numbers the two numbers to the two numbers the number	12
	ey Words  Dumerator: the top number of Denominator: the bottom numb Unit fraction: a fraction with a Commutative: changing the ord change the result  Reciprocal: the reciprocal of a Coprime: two numbers which sany fractions    Example 2   Craping   Craping     Example 2   Example 2   Craping     Example 2   Example 2   Craping     Example 2   Example 3   Craping     Example 2   Example 3   Craping     Example 2   Example 3   Craping     Example 3   Example 4   Example 5   Craping     Example 5   Example 6   Example 7   Craping     Example 6   Example 7   Craping     Example 7   Example 7   Craping     Example 7   Example 7   Craping     Example 7   Example 7   Craping     Example 8   Example 7   Craping     Example 9   Example 9   Craping     Example 9   Example 9   Craping     Example 9   Example 9   Craping     Example 1   Example 9   Craping     Example 1   Example 9   Craping     Example 1   Example 1   Example 9   Craping     Example 1   Example 1   Example 9   Craping     Example 1   Example 1   Example 1   Example 1   Example 1   Example 1   Example 2   Craping     Example 1   Example 2   Craping     Example 2   Example 3   Craping     Example 2   Craping     Example 2   Craping     Example 2   Craping     Example 2   Craping     Example 3   Craping     Example 4   Example 6   Craping     Example 5   Craping     Example 5   Craping     Example 6   Craping     Example 7   Craping	7
The same	[ ] 리시되어 등 씨이 !!   ]	

er of the operations doesn't

numerator of one

er of a fraction

a fraction



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uss Cancelling Method

<del>ا</del>ل⊏

Example 2 10  $\times$ 210 hisb

Example 3

3 × Z 2 × 3

218

 $\times$ 

Z | P

		——— j ¦
		₽ ,
2	88 33	2 alors
		" "
	mple 1	1 per
	E 100. 9	× E = 3 = 1

A number multiplied by its

Reciprocals

Dividing integers by a unit fraction

reciprocal is always

this becomes 1 x 4 3 x 3



is the same as multiplying by its' reciprocal, a

5 x

Dividing by a fraction, 👨

 $\times$ 

Think of this as 'how any times does a third go into 3?'

–|ო

4

3 + 1

The reciprocal of a is a

there are three thirds in one whole,

so there are 9 thirds in 3 wholes

Example

2 0			
3		7	7
DINIM Id	Example 1	3 12	C

8

Reverse Fractions of Amounts

"Share 10 into 2 equal parts"

0

Find  $\frac{1}{2}$  of

Finding Fractions of Amounts

**≥**||≥

# $\frac{3}{4}$ of a number is 15. What is the number?

2

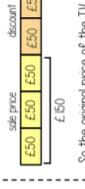
2

2

2

# Worded problem

A TV is on sale for 2/5 off the price. It now costs £ 150. How much did it cost originally? £50 £ 150



of £105 = £7350

Page 8

The number is 8 x3 = 24. 9 9 EI05 - 10 - £1050

 $\frac{3}{4}$  of the number? If 3 parts \* 15, then one part must \* 5 16. What is The original number was 20 of a number is

Each part must be

3 is 8 as 24+3=8

9

н 24

 $\frac{2}{3}$  of

Find 16 of £ 105

2 parts is 16

Find  $\frac{2}{3}$  of 24

If 2 parts - 16, then one part must - 8 So what is  $\frac{3}{4}$  of 24?

So the original price of the TV was 5 x £50 = £250

= 18

Transverse and Longitudinal Waves

**Properties of Waves** 

Waves can be either transverse or longitudinal.

In a transverse wave, the vibrations are at a right angle

(perpendicular) to the direction of the energy transfer. The wave has peaks (or crests) and troughs. Examples include water waves and light waves.



In a longitudinal wave, the vibrations are in the same direction (parallel) as the energy transfer. The wave has areas of compression and rarefaction. Examples of this type of wave are sound waves.



itself does not move. Particles of water or air vibrate and When a wave travels, energy is transferred but the matter

generating ripples across the This can be shown by placing a cork in a tank of water and surface. The cork will bob up and down on the oscillations of the wave but will not travel across the tank.



The ripple tank apparatus shown is the most commonly

> The frequency of a wave is the number of waves which pass a given point every sec

time period (s) = 1 + frequency (Hz)

t = 1 + f

The wave speed is how quickly the energy is transferred through a medium (how quickly the wave travels).

# wave speed (m/s) = frequency (Hz) × wavelength (m)

### $v=f\times\lambda$

The speed of sound waves travelling through air can be measured by a simple method. One person stands a measured distance from a large flat wall, e.g. 100m. The person then claps and another person measures the time taken to hear the echo. The speed of the sound can then be calculated using the equation

### speed = distance × time.

Remember the distance will be double because the wave has travelled to the wall and back again. It is important to take several measurements and calculate the average to reduce the likelihood of human error.

# Required Practical Investigation 8

Aim: make observations and identify the suitability of apparatus to measure the frequency, wavelength and speed of waves in a ripple tank and waves in To battery & rheostat a solid, and take appropriate

used for this investigation. It is

Turn on the power and observe the waves. Make any necessary adjustments likely you will work in groups observe the investigation as a demonstration by your apparatus is already set-up): Method (assuming the

to the equipment so that the waves are clear to observe (alter the voltage supplying the motor). N.B. The lowest frequency setting on the motor will To measure the wavelength, use the metre ruler and make an estimate quickly. You may want to use a stroboscope and freeze the wave patterns to make ensure that the waves measurements can be made more easily.

Record 10 wavelengths and calculate the average value.

To measure the wave frequency, mark a given point onto the white paper and

count the number of waves which pass the point within 10 seconds. Divide your answer by 10 to find the number of waves per second. Record 10 frequencies and calculate the average value.

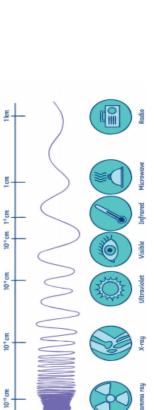
# To calculate the wave speed, use this formula:

speed = frequency × wavelength

# The Electromagnetic Spectrum

Required Practical Investigation 10 spectrum. Each of the frequencies of waves travel at the same velocity and can pass through a vacuum as well as air

Electromagnetic waves transfer energy from a source to an absorber as transverse waves. The different waves are grouped depending on their frequency and form a continuous spectrum known as the electromagnetic



<b>Gamma</b> ray		X-ray Ultraviolet Visible Infrared		Microwave Radio
nency	Wave	Use		Other Information
Low	radio waves	Communication via television and radio, and	and	Easily transmitted through air and can b
<b>←</b>		satellite communications.		direction. Harmless if absorbed by the huma
				the atmosphere and carriot pass through this
	microwaves	Communications including satellite		When the molecules absorb microwaves, the
		communications and cooking tood.		exposure to microwaves. Can pass through th
	infrared	Short-range communications (remote controls),	trols),	It can cause burns to skin.
		electrical heaters, cooking food, optical fibres,	pres,	
		security systems and thermal imaging cameras.	meras.	
	visible light	Used for lighting, photography and fibre optics.	optics.	Frequency range that is detectable by the hur
	ultraviolet	Sterilising water and killing bacteria. Detecting	ecting	Causes skin tanning and can lead to bums o
		forged bank notes.		
	X-rays	Medical imaging and airport security scanners.	nners.	Very little energy is absorbed by body tissu
$\rightarrow$	gamma rays	Sterilising medical equipment or food and		through the body.
High		treatment for some cancers.		These waves can lead to gene mutation and

You can remember the order of the electromagnetic spectrum easily with the phrase: Roman men invented very unusual X-ray guns.

# Aim: investigate how

radiation absorbed or radiated by a surface depends on the nature of that surface.

type of surface emits the most infrared radiation: dark and matt

In this investigation, you are finding out which

- dark and shiny
- light and matt
- light and shiny

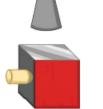
### Method:

Once the kettle has boiled, fill the Leslie cube Place the Leslie cube on a heatproof mat.

> be reflected to change their an body. Are reflected back off

heir internal energy increases. cells become heated by over he atmosphere and into space.

- Ensuring that the thermometer with hot water.
- from each of the surfaces (in turn) on the Leslie cube, measure the amount of infrared Repeat the experiment twice more to collect is an equal distan infrared detector radiation emitted.
- three results for each surface.



ues. Instead, it is transmitted

cancer.

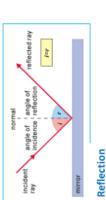
or skin cancer.

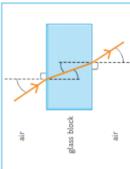
ıman eye.

Properties of electromagnetic

waves







Refraction

You should be able to complete or construct a ray diagram to show how a wave is refracted at the boundary of a different medium

As the wave moves to a more dense medium (e.g. from gas to solid), it slows down and bends so that the angle from the normal becomes smaller. The angle of incidence is larger than the angle of refractior As the wave moves from a more dense medium (e.g. from solid to gas), it speeds up and bends so that the angle from the normal becomes larger. The angle of refraction is larger than the angle of incidence The angle at which a wave enters the glass block is equal to the angle that it leaves the glass block (when entering and leaving the same medium); ever, if a wave crosses a boundary between two mediums at an angle of 90°C, then it will not change direction but instead carry on in a straight line. Gamma rays occur as the result of changes to the nuclei of atoms and atoms themselves. It is a form of radiation and the waves can be generated and absorbed across a wide range of frequencies. UV, X-rays and gamma are all types of radiation and can be harmful to human health; they cause damage to human body tissues. The severity of the damage caused depends on the dose of radiation a tissue or cell is exposed to. Radiographers and dentists who routinely carry out X-ray examinations wear a device to monitor the amount of exposure and ensure they are within a safe limit.

X-rays and gamma rays are lonising and can cause mutations to genes which may result in cancer

UV waves can cause the skin to burn and age prematurely. UV exposure also increases the risk of developing skin cancer.

# Radio Waves (Higher tier only)

Oscillations in electrical circuits can produce radio waves which when absorbed by a conductor, produce an alternating current

The alternating current has the same frequency as the radio wave and so information can be coded for transmission. This is how television and radio are broadcast.

# Inheritance, Variation and Evolution Knowledge Organiser

Science

asexual reproduction - The production of offspring from a single parent by mitosis. The offspring are clones of the parent. chromosome – Structures that contain the DNA of an organism allele – An alternative form of a gene

Keywords

cystic fibrosis – A disorder of cell membranes that is caused DNA - A polymer that is made up of two strands that form a and are found in the nucleus by a recessive allele.

dominant – An allele that is always expressed, even if only double helix

gamete – Sperm cell and egg cell in animals; pollen and egg fertilisation – The fusion of male and female gametes.

one copy is present.

gene – A small section of DNA that codes for a specific protein. genome - The entire genetic material of an organism. genotype – The combination of alleles. cell in plants.

heterozygous - A genotype that has two different alleles, dominant and one recessive.

A genotype that has two of the same alleles.

snogkzo

neiosis – The two-stage process of cell division that reduces the chromosome number of the daughter cells. It makes Either two dominant alleles or two recessive alleles.

gametes for sexual reproduction. mutation - A change in DNA.

the expressed because of phenotype - The characteristic combination of alleles.

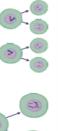
Put the two alleles

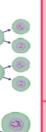
polydactyly - Having extra fingers or toes. It is caused by a dominant allele.

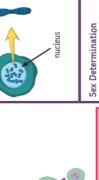
recessive - An allele that is only expressed if two copies of it

β offspring gametes of combining genetic information from the The production parents. Leads to variation in the offspring. sexual reproduction

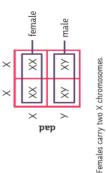
of











The chromosome number is reduced by half In humans, this is 23 chromosomes.

Produces gametes for sexual reproduction

Used for growth and repair, and asexual

The chromosome number of the daughter cells is the same as the parent cells. In humans, this is 46 chromosomes.

Daughter cells are not genetically identical

Daughter cells are genetically identical.

The cell divides once.

Produces two daughter cells

Mitosis

The cell divides twice.

Produces four daughter cells

Meiosis

Males carry one X and one Y chromosome.

male genotype Probability

There are four possible combinations of gametes that offspring can inherit.

ΑA Aa

female genotype

Ø

aa Aa

The recessive phenotype has a ratio of 1:3 because only one combination will show the phenotype while the other three will not.

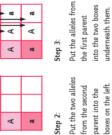
How to Complete a Punnet Square



Step 2: A

from the second boxes on the left. parent into the into the boxes at the a heterozygote. This means they have one dominant and one recessive allele top. This parent is from one parent

This parent is also



Put the alleles from the second parent into the two boxes to the right of them Step 4:

One of these four has the genotype aa - that's ‡, 25%

or 0.25.

A AA Aa a Aa aa Ø

### Keywords embryo

See evolution - A change in the inherited characteristics of a population over time 2 - Genetic whether it carries a faulty allele. embryo out on an screening carried

evolutionary tree - A method used to show how scientists believe organisms extinction - The permanent loss of all are related.

members of a species

fossils - The remains of organisms from

millions of years ago which are found genetic engineering - The process by which scientists manipulate and

change the genotype of an organism.

natural selection - The process by

which organisms that are better suited to an environment are more likely to survive and reproduce.

selective breeding - Humans selecting animals or plants, that have a required speciation - The process by which two characteristic, for breeding.

species evolve from a single original species by natural selection. The two populations have become so different longer interbreed to variation - Differences in characteristics produce fertile offspring. that they can no

individuals in a population

Variation maybe be due to Variation

Fossils could be:

- the genes that have been differences in:
- inherited (genetic causes); the conditions in which

through a process of natural selection.

- a combination of genes and (environmental causes); they have developed
- the environment.

organisms have changed as life developed on earth.

Fossils help us understand how much or little

Many early life forms were soft-bodied so have left

few traces behind.

auto.

3. These offspring are then bred again

and again, over many generations,

until a desired result is achieved.

Select the best offspring and breed

7

1. Choose parents who have the

Selective Breeding

desired characteristic.

the actual remains of an organism that has not

mineralised forms of the harder parts of an

traces of organisms such as footprints or

organism, such as bones;

these to make the next generation.

evolved from simple life forms by All species of living things have natural selection. Evolution

individual will be better able If a variant/characteristic environment, then the is advantageous in an to compete.

Their offspring will inherit This means they are more ikely to survive and reproduce.

the advantageous allele.

Resistant Bacteria

Genetic Engineering



a mutation by chance that means it is resistant to an antibiotic. in the bacterial population. One bacterium develop

The antibiotic the resistant

kills some of the bacteria,

the rest of the non-resistant bacteria The antibiotic kills ..

so the person may start to feel continues to multiply esistant bacterium a little better. The has survived the antibiotic and

survives and reproduces.

To reduce the rate at which antibiotic-resistant

- strains appear:
- Antibiotics should only be used when they are
- really needed, not for treating non-serious or

viral infections.

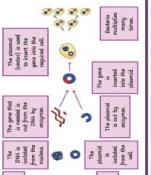
antibiotics, even if they start to feel better. Patients should complete their courses of

The agricultural use of antibiotics should be

restricted.

Classification





# Linnaeus classified living things into kingdom, phylum, class, order, family, genus and species.

Due to evidence from chemical analysis, there is now a 'three-domain Organisms are named by the binomial system of genus and species.

system' developed by Carl Woese.

eukaryota	fungi plantae animalia
	protista
archaea	archaebacteria
bacteria	eubacteria
Domain	Kingdom

### PARENT/CARER QUIZZES

Ask your parent or carer to quiz you on some of the knowledge from *Maths* and *Science*. Record your scores below and see if you improve each time.

Date	Subject	Score /10	Did you improve from last time?



# Grade 7-9 Spanish WOW phrases

# Spice up your 150 word and your speaking.





Go through this booklet and pick out between 3-5 phrases in each section that you are going to use in your 150-word piece of writing no matter what the bullets are asking you. Learn them off by heart. In your writing examination write them down when you are planning to make sure you include them in your answers.

### Opinion phrases.

me chifla/me mola - I like
me parece que - It seems that
a mi modo de ver - from my point of view
desde mi punto de vista - from my point of view.
según mi madre - according to my mum
diría que - I would say that
es importante decir que - it's important to say that
debo admitir que - I have to admit that
que vale la pena - it is worth it
ser un sueño hecho realidad - a dream come true
tengo la impresión de - I get the impression
habría creído - I would have believed
para mi parte - as for me
lo que me molesta - what annoys me
lo que me preocupa - what worries me

### A range of adjectives.

irritante – irritating
decepcionante – disappointing (not deceptive)
emotivo/a – moving (emotional)
exitoso/a – successful
original – original
confundido/a – confused
flipante – owesome

delicioso/a – delicious agotado/a – exhausted ridículo/a – ridiculous inolvidable – unforgettable encantado/a – delighted

### A range of grammatical structures.

Tener structures.

enfadado/a - angry

tener suerte - to be lucky (Ian tiene suerte porque va a Barcelona) tener éxito - to be successful (Tengo éxito porque...) tener miedo de - to be scared of (Tengo miedo de viajar en avion) tener prisa - to be in a hurry (siempre tengo prisa por la mañana)

- Sin + infinitive (without)
   sin perder un momento (without wasting a moment)
   es mejor vivir sin fumar (it's better to live without smoking)
   sin aprender los verbos irregulares el español resultará más dificil (without learning irregular verbs, Spanish would be more difficult)
- Antes de (before)
   antes de coger el avion before catching the plane.

antes de volver a casa - before going home

**MFL** 

- Al + infinitive (on doing something)
- al llegar al colegio, voy al club de tenis on arriving at school I go to tennis club. al volver a casa siempre meriendo algo on arriving home, I always have a snack.
  - Después de (after doing something)

después de hacer mis deberes - after doing my homework.

después de charlar con mis amigos - after chatting to my friend.

- A pesar de in spite of doing something
- a pesar de hacer mis deberes, recibí un castigo ayer despite doing my homework, I got a dention yesterday.
- a pesar de trabajar bien en matemáticas, siempre saco malas notas in spite of working hard in maths, I always get bad grades.
- Acabar de + infinitive (to have just done something)
   acabo de hacer mis deberes I have just done my homework.
   acabo de llegar de Barcelona I have just arrived from Barcelona.
   acaban de ganar cinco partidos they have just won 5 matches.
- Estar a punto de to be about to do something
   estoy a punto de ir al cine con mis amigos iQué guay! I'm about to go to the cinema with my friends how cool.

estaban en punto de salir cuando llegaron sus abuelos - they were just about to leave when their grandparents arrived.

Desde hace/hace + time

estudio el Español desde hace 5 años – I have been studying Spanish for 5 years. hace 5 años, fui a España por la primera vez – 5 years ago I went to Spain for the first time.

### Use idiomatic expressions.

- Aburrirse como una ostra to be bored to death
- Estar más perdido que un pulpo en un garaje to not have a clue.
- Un pulpo en un garaje a fish out of water.
- Ser la leche to be amazing/the greatest
- Cuesta una oja de la cara to cost an arm and a leg
- · Tomar el pelo to pull one's leg (me estás tomando el pelo you're pulling my leg)
- Ser pan comido to be a piece of cake.
- Estar como una cabra to be a bit barmy
- No tener pelos en la lengua to be straight-talking/direct (mi amigo no tienes pelos en la lengua - my friends tells it how it is)
- Tirar la casa por la ventana to spare no expense. ("Tiré la casa por la ventana cuando compré mi nuevo coche." (I spared no expense when I bought my new car.)
- Estar hecho un ají to be hopping mad
- Estar más sano que una pera to be as fit a fiddle.
- Ser uña y carne to be bosom buddies.
- Tener un humor de peros to be in a bad mood

### Extending your sentences (fancy connectives)

- que who/which/that (mi madre que se llama Sheila)
- lo que use at the beginning of a sentence to express an opinion (lo que me molesta)
- cuando when
- mientras while
- por ejemplo for example
- por un lado... por otro lado on one hand... on the other hand.
- de hecho in fact
- sin embargo/no obstante nevertheless
- aparte de besides
- no solo...sino también not only...but also
- como as
- solo el tiempo dirá only time will tell
- · no cabe duda de que there is no doubt that
- Tener más lana que un Borrego to be loaded/rolling in money
- Estar sin blanca to be skint

### The Subjunctive

- cuando tenga dieciocho años when I'm 18
- si tuviera bastante dinero if I had enough money
- ojalá ganemos la lotería I hope we win the lottery
- ojalá haga buen tiempo mañana I hope its nice weather tomorrow.
- quiero que me madre sea I hope my mum will be
- espero que tenga buenas notas I hope I get good grades
- sea como sea no matter how/at any cost
- cuando sea whenever
- aunque sea poco although it's not a lot
- aunque sea pequeño although it's small
- ojalá sea pronto I hope it will be soon.
- ojalá que salga bien I hope it turns out well.
- · cuando sea necesario when it is necessary
- quiero que sepas I want you to know.

### Introducing ideas

- trata de this is about/ to do with
- con respecto a as for
- para colmo to cap it all
- · dado que/puesto que given that
- · considerando que/dado que considering that
- en vista de/visto que in view of
- me parece que- it seems to me that
- sin duda without doubt
- gracias a thanks to
- a causa de because of
- de hecho indeed, in fact
- en primer lugar First of all

### SPANISH GCSF ESSENTIALS (HIGHER)

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### SPANISH GCSE ESSENTIALS (HIGHER)

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### SENTIALS (FOUNDATION) vailable from mfl.tuition@btinternet.com

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OPPOSING IDEAS

IDEAS

pero - but

1	55	FUTURE	mañana					
	TIME MARKERS	PAST	ayer					
		PRESENT	hoy	de momento	esta noche	este verano	el lunes	ahora

+ INFINITIVE

You must You can

I want to

I can

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OPINION STARTERS

para mí

Approx   A	POSTITIVE							
VERB   -AR   -ER   -IR   to go   yo   ellos/ellas   ellos/ellas	POS							
VERB   -AR   -ER   -IR   to go   yo   ellos/ellas   ellos/ellas			FSTAR	to be				
WERB -AR -ER -IR yo ellos/ellas			HARFR	to have				
VERB ENDINGS yo él/ella ellos/ellas	٦							
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VERB ENDINGS yo él/ella ellos/ellas			Ī	-AR				
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1 1 1000				NE <i>GA</i> TIVES				

NEGATIVE

ADJECTIVES

**VERB** 

2

### **Spanish Writing Mat (F)**



### Time markers

present	past	future
hoy - today	ayer - yesterday	mañana - tomorrow
de momento - at the moment	en el pasado – in the past	en el futuro - in the future
esta noche – tonight	anoche – last night	mañana por la noche- tomorrow night
este verano - this summer	el verano pasado – last summer	el próximo verano - next summer
ahora - now	anteayer - the day before yesterday	pasado mañana - the day after tomorrow

# JOINING IDEAS y - and además - also así que - therefore porque- because por lo tanto- therefore

OPPOSING IDEAS
pero - but
sin embargo - however
mientras - whereas
no obstante – however
aunque - although

### **Adjectives**

	Pos	sitive			Neg	ative	
barato/a	cheap	agradable	pleasant	aburrido/a	boring	terrible	terrible
fácil	easy	bonito/a	pretty	fatal	awful	feo/a	ugly
útil	useful	genial	great	difícil	hard	inútil	useless
relajante	relaxing	amable	nice	egoísta	selfish	malo/a	bad
facinante	fascinating	divertido/a	fun	caro/a	expensive	duro/a	hard

+ INFINITIVE

		Negatives
no	ЭЛ	- not
no	'ERB	nunca - not ever
no		nadie – not anybody

INFINITIVE EXPRESSI	ON
tengo que - I have to	
puedo - I can	
quiero - I want to	
voy a - I will	
me gustaría – I would like to	
se debe - you must	
se puede - you can	
hay que - you have to	

OPINION STARTERS				
para mí	creo que			
me parece que	pienso que			

### **Opinions**

me encanta(n)	+ infinitive
me gusta(n)	
no me gusta(n)	or
odio	+ noun
prefiero	

justifying opinions				
porque	because			
es	it is			
era	it was			
será	it will be			

INTENSIFIERS
mucho – a lot
muy - very
tan - so
demasiado – too much
bastante - quite
un poco – a little

FREQUENCY
todos los días
a menudo
a veces
algunas veces
de vez en cuando
raramente

VERB ENDINGS	-AR	-ER	-IR	IR to go	HABER to have	ESTAR to be
yo	-0	-0	-0	voy	he	estoy
él/ella	-a	-е	-е	va	ha	está
ellos/ellas	-an	-en	-en	van	han	están

Spanish	First guess	Checked in a dictionary	After learning	Reviewea
acabar de	To have just			
bastar	To be enough			
comenzar	To start			
continuar	To continue			
dar	To give			
darse cuenta de	To realise			
deber	must			
decidir	To decide			
dejar de	To stop (doing something)			
Echar Echar de menos	To remove To miss someone			
empezar	To start			
embarazarse	To get pregnant			
hace(n) falta	To need			
durar	To last			
emboracharse	To get drunk			
hay	There is /there are			
hay que	You must			
escoger	To pick			
elegir	To chose			
coger	To catch			

Spanish	First guess	Checked in a dictionary	After learning	Reviewe
medir	To measure			
mentir	To lie			
necesitar	To need			
ocurrir	To happen			
pasar	To spend (time)			
pesar	To weigh			
poder	To be able to			
poner	To put			
gastar	To spend (money			
querer	To want			
Ganar	To earn			
saber	To know			
seguir	To follow			
aprobar	To pass			
suspender	To fail			
confiar	To trust			
tener lugar	To take place			
tener que	To have to			
Tener ganas de	To look forward to / to fancy			
casarse	To get married			

Teacher test score: ....../20

Re-test score: ...../20

Teacher test score: ....../20 Re-test score: ...../20

**Page 18** 

Spanish	First guess	Checked in a dictionary	After learning	Reviewed
aburrirse	To ger bored			
Aguantar	To stand (something)			
alegrar	To be happy			
alegrarse (de)	To be pleased			
apreciar	To appreciate			
aprovechar	To take advantage of			
aprovecharse (de)	Yo take advantege of someone			
creer	To belive			
dar igual	I am not bothered			
decepcionar	То			
decir	To say			
molestar	To bother			
detestar	To hate			
disfrutar	To enjoy			
divertirse	To rnjoy yourself			
dudar	To doubt			
encantar	To love			
encontrar (+adj.) que	To find			
esperar	To wait/hope			
estar de acuerdo	To agree			

Spanish	First guess	Checked in a dictionary	After learning	Reviewed
estar a favor de	To be in favour of			
estar en contra de	To be against			
estar equivocado	To be wrong			
estar harto de	To be fed up of			
fastidiar	To bother/wind up			
Soportar	To stand (something)			
interesar(se)	To be intereseted in			
odiar	To hate			
opinar	To have the opinion that			
parecer	To seem			
pasarlo bien/mal	To have a good/bad time			
pensar	To think			
ponerse de acuerdo	To agree with			
preferir	To prefer			
quedar	To stay			
querer decir	To want to say			
reconocer	To recognise			
sentir(se)	To feel			
tener razón	To be right			
valer la pena	To be worthwhile			

Teacher test score: ....../20

Re-test score: ...../20

Teacher test score: ....../20

Re-test score: ...../20

Page 19

	П
IVIF	П

Spanish	First guess	Checked in a dictionary	After learning	Reviewed
aburrido	boring			
afortunado	fortunate			
agradable	pleasant			
antiguo	old			
barato	cheap			
bonito	pretty			
caro	expensive			
decepcionante	dissapointing			
desagradable	unpleasant			
divertido	fun			
duro	hard			
emocionante	exciting			
encantador	charming			
entretenido	entertaining			
espléndido	splendid			
estupendo	great			
fácil	easy			
fatal	awful			
fenomenal	fantastic			
feo	ugly			

Self-test score:/20
Teacher test score:/20
Re-test score:/20

### Knowledge organiser: the origins of the Cold War, 1941–1958



### **Key individuals:**



Western bloc.



### Franklin D. Roosevelt (1933-1945)

President during the Grand Alliance. Wanted to work with the USSR to at the Tehran and Yalta Conferences.



### Harry Truman (1945-1953)

President during the freezing of relations with USSR Famous for dropping the first A-Bomb, the Truman Doctrine. Marshall Plan and Berlin

Sought to contain communism.

I 5 March

1946:

speech

Churchill's

'Iron Curtain'



### Dwight Eisenhower (1953-1961)

President during the Hungarian Uprising, and escalated the arms race by authorising USH-Bomb (1952) and ICBM tests (1957).



### Communists

Eastern bloc.



### Josef Stalin (1929-1953)

Became unchallenged leader of the USSRin 1929. Joined the Grand Alliance after the Nazis invaded the USSRin 1941.

Stalin was a ruthless dictator, who wanted to prevent the USSR being invaded again. He built a buffer-zone in Eastern Europe as he felt that the capitalist powers would eventually invade again. He sought to build up the USSR's strength for a future war and spread communism. An example of this is the Berlin Blockade in 1948.



February 1948:

Czechoslovakia

Communist

takeover of

### Nikita Khrushchev (1953-1965)

Famous for a policy of peacefulcoexistence with the USA. He created the Warsaw Pact (1955) and ordered the invasion of Hungary (1956).

### Timeline:

■November 1943: Tehran Conference

August 1945: A-Bomb

January 1947:

Communist takeover of Poland

5 June 1947: Marshall Plan announced

January 1949: Comecon set up

7 October 1949:

Formation of German Democratic Republic

14 May 1955:

Warsaw Pact formed

USSRin 1953.

### July 1945: Potsdam Conference

February 1945: Yalta

Conference

27 September 1946:

Novikov telegram

7 October 1949: 24 June 1948-Cominform 12 May 1949: set up Berlin Blockade

12 March 1949: Truman Doctrine

22 February 1946: Kennan's 'long' telegram 25 May 1949: Formation of

Federal Republic 23 Juneof Germany 11 November 1956: Hungarian Uprising

4 April 1949: NATO set up

Glossary of key terms:		
A-bomb: the atom bomb was the first nuclear weapon. Two were dropped on Japan in August 1945. The USSR raced to develop its own A-bomb, which was done in 1949.	Ideology: a set of shared beliefs. In 1941, the USA and USSR had different ideologies about how a country should be governed.	
Arms race: a race to have more bigger, powerful weapons than another country.	Iron Curtain speech: a speech given by former Prime Minister, Winston Churchill, on 5 March 1946. He made it plain that he thought the USSRwas a threat to freedom and world peace.	
Bertin Crisis, 1948: disagreements over the running of the German and Bertin zones of occupation led to the Bertin Blockade and Bertin Airlift. It ended when the USSR backed down and lifted the blockade.	Marshall Plan: also known as the European Recovery Program (ERP),offered economicaid to the countries of western Europe to help them rebuild and to prevent them becoming communist.	
Capitalism: the belief that everyone should be free to own property and businesses to make money.	Military Alliances: armed groups of countries that support each other if attacked. The USA led NATO and the USSRIed the Warsaw Pact.	
Comecon: its full name was the Councilfor Mutual Economic Assistance. It was the USSRsversion of the Mar-shall Plan in the Eastern bloc.	Potsdam Conference: the final conference between the Grand Alliance to solve the problems of WW2. It met in Potsdam in Germany.	
Cominform: its full name was the Communist Information Bureau. It was set up by Stalin to allow him to control the governments of the satellite states.	Satellite state: a nation that was once independent but is now under the control of another.	
Communism: the belief that all property should belong to the state and that everyone gets a fair share of the wealth.	Superpowers: the name given to a state that is stronger, either militarily or economically than all others. The USA and USSR were superpowers.	
Containment: limiting the spread of something. During the Cold War, the USAwanted to contain communism.	<b>Tehran Conference:</b> the first meeting of all leaders of the Grand Alliance, in Iran. The meeting discussed how to win WWII and what to do after the war.	
<b>Dollar Imperialism:</b> Stalin used this phrase in his criticism of the Marshall Plan. He argued that the USA wanted to divide Europe in two and establish American economic control over western Europe.	Telegrams: a written message sent by telegraph. The predecessor of an email. Famous telegrams include Kennan's 'long' telegram and the Novikov telegram.	
FRG: short for the Federal Republic of Germany. This was the full	Truman Doctrine: a speech by Truman on 12 March 1947, in	

Yalta Conference: a meeting of the Grand Alliance at Yalta in the USSRIt made the agreements at Tehran more concrete including the division of Germany and the creation of the United Nations.

ICBM; short for Inter-continental ballistic missile. Essentially a rocket that a nuclear bomb can be attached to and fired at an enemy.

Hungarian Uprising: an attempt by the people of Hungary to

break free from Soviet communism. The USSR invaded when the

Pact. The USS Preimposed a Soviet communist government in

Hungarian leader, Nagy said Hungary would leave the Warsaw

Zone; an area of land. After WWII Germany and Austria were divided in to four zones occupied by the USA USSRUK and France.

### Knowledge organiser: Cold War crises, 1958—1970

### **Kev individuals:**

### Presidents of the United States of America (USA)

Capitalists

Western bloc.



### Dwight Eisenhower (1953—1961)

President during the Berlin crises 1958-1960, and famously broke off relations with Cuba in 1961.



### John F. Kennedy (1961-1963)

President during the Berlin crisis that led to the Berlin Wall being built. He also had to deal with the Cuban Missile Crisis. Assassinated in 1963.



### Lyndon B. Johnson (1963-1969)

President during the Prague Spring. and the Soviet invasion of Czechoslovakia.



### Leaders of the Union of Soviet Socialist Republics (USSR)

Communists Eastern bloc.



### Nikita Khrushchev (1953—1965)

Leader of the USSR. He had violently put down the Hungarian Uprising in 1956. Khrushchev followed a policy of peaceful co-existence with the west.

Khrushchev wanted allies out of West Berlin and precipitated a series of crises to force them out. When this failed he asked the GDR to build the Berlin Wall. He also backed Fidel Castro in Cuba leading to the Cuban Missile Crisis. He was removed from power by a group led by Brezhnev who thought he had failed as a leader.



### Leonid Brezhnev (1965-1982)

As leader of the USSR he wanted to secure communism. He ordered the vasion of Czechoslovakia in 1968.

### Timeline:

1 January 1959: Cuban Revolution

10 May 1959: Geneva Summit

May 1960: U2 incident and Paris

Summit

4 June 1961: Vienna Summit

> 16-28 October 1962: Cuban Missile Crisis

June 1963: Kennedy visits West Berlin

### 10 October 1967:

Outer Space treaty signed

1 July 1968:

Nuclear Non-Proliferation Treaty signed

### 25 September 1959:

Camp David Summit

### 27 November 1958:

Khrushchev's Berlin Ultimatum

### 13 August 1961:

Construction begins on the Berlin Wall

### April 1961: Bay of Pigs

5 August 1963: Test Ban Treaty

20 June 1963: Hotline Agreement

### 20 September 1968:

Brezhnev Doctrine announced

### 20 August 1968:

Warsaw Pact invade Czechoslovakia

### Glossary of key terms:

Bay of Pias: the location of a failed US-sponsored attack on Cuba to overthrow Castro, April 1961. Around 1,400 Cuban exiles armed with US weapons attached. It was a failure and humiliated Kennedy and the USA.

Berlin Ultimatum: in November 1958, Khrushchev demanded that Berlin should be demilitarised and Western troops withdrawn so it could become a free city. He withdrew it in 1959, but renewed it in 1961.

Berlin Wall: a concrete and barbed wire wall that encircled West Berlin to prevent East Germans escaping to the west. The communists called it the 'Anti-Fascist Prevention barrier' and claimed it was to prevent the capitalist countries destroying socialism.

Brezhnev Doctrine: a belief announced by Brezhnev after the invasion of Czechoslovakia. It stated that the USSR and its allies had the right to invade another communist country if communism was threatened.

Brinkmanship: pushing events as close to war/conflict as possible, with the aim of achieving an advantageous outcome.

Camp David, 1959: Khrushchev was the first Soviet leader to visit the USA. He met Eisenhower for the first time at the Presidential retreat at Camp David. It led to better relations between the superpowers and led to the withdrawal of the Berlin ultimatum.

Cuban Missile Crisis, 1962: the closest the world has ever come to nuclear war. Soviet missiles were found on Cuba and the USA demanded they were withdrawn. After much brinkmanship, the USSR agreed to the removal of the missiles.

Cuban Revolution, 1959: Fidel Castro and Che Guevara ed a revolution that overthrew the US sponsored dictator. Batista. This created tension between the USA and Cuba.

Free-city: a city with its own independent government.

Geneva, 1959: a summit between the foreign ministers, where they tried to sort out the issue of how Berlin would be governed. No agreement was made.

Hotline: a direct telephone line between the Whitehouse and the Kremlin. It allowed the leaders of USA and USSR to talk to each other quickly to avoid another event like the Cuban Missile Crisis.

Ich bin ein Berliner: Kennedy made this speech to the people of West Berlin in June 1963. An urban legend is that he said 'I am a jam doughnut', but this is a misconception. You can say 'Ich bin Berliner' or 'Ich bin ein Berliner'.

Kennedy's visit to West Berlin, 1963: Kennedy made the visit to West Berlin to raise morale after the building of the Berlin Wall. It demonstrated US commitment to West Berlin.

Nationalise: when a business is taken over by the government.

No man's land; land which is unoccupied or under dispute between two countries. The gap between the land between the Berlin Wall was called no man's land, although technically it was part of East Germany.

Nuclear Non-Proliferation Treaty, 1968: a treaty signed by the USA, USSR, France, UK and other countries that did not have nuclear weapons. The treaty forbade the sharing of nuclear technology.

Non-proliferation: stopping the spread of something, usually weapons or armaments.

Outer space treaty, 1967: in this agreement the USA and USSR agreed to not use space for military purposes. The treaty specifically ruled out putting nuclear weapons into orbit.

Paris, 1960: a summit that failed due to the U2 incident. Eisenhower refused to apologise, and Khrushchev left.

Prague Spring: the period in Czechoslovak history when Dubček's ideas of reforming socialism were implemented (April—August 1968). It ended with the Warsaw Pact invasion.

Refugee: a person who has been forced to leave their country.

Socialism with a human face: the idea of Dubček, which envisioned the reform of communism to allow more people to have greater freedoms.

Test BAN, 1963: a consequence of the Cuban Missile Crisis. In August 1963 the USA, USSR, and UK agreed to not test nuclear weapons in space, underwater or in the atmosphere.

The Thirteen Days: another name for the peak of the Cuban Missile Crisis, Between 16-28 October 1962.

U2 Crisis, 1960: On 1 May an American U2 spy plane was shot down over the USSR. The USSR demanded an apology, but the USA refused.

Ultimatum: a final demand, often backed up with a threat to take action.

Vienna, 1961: a summit where Kennedy and Khrushchev met for the first time. Khrushchev thought he could bully Kennedy. He failed and it led to a strain in US-Soviet relations.

Warsaw Pact: the Eastern bloc's military alliance. They invaded Czechoslovakia together in 1968.

KI: The UK has a range of diverse landscapes			e of diverse landscapes	GCSE Physica	l landscap	oes in the UK – Coasts Knowledge Organiser	Concordant coast	tline - Dorset	Discordant Coastline - Dorset	
	Key terms	Definitions		Key terms	Definition	ns	Durdle Door (arch Lulworth Cove	n)	Duriston Head (Headland) Swanage bay	
	Chemical	The decomposition of	rock by a chemical change within the rock	Abrasion	The wear	ing away of cliffs by sediment flung by breaking waves	Kimmeridge (Wa	ve Cut Platforms)	Old Harry (stack) Studland sand dunes	
	weathering  Deposition		transported by the sea is dropped due to	Attrition			Seacombe (cliffs)		Sandbanks (beach and spit)	
the sea losing energy			Hydraulic power	Waves br	reaking compress air in cracks in a cliff	KI : Different ma		used to protect coastlines from the effects of processes		
2	Erosion The wearing away and removal of material by a moving force		Transportation: Long Swash – the moveme			Soft engineering	ngineering Managing erosion by working with natural processes			
d	Longshore drift	and backwash	sediment along the shore caused by swash	material up the beach Backwash – the move material back down t	ment of	Tomation of Statement and Stat	nourishment per 100 metre		erial to a beach artificially. Cheap (£500, 000 maintain, constant maintenance, sand from	
<b>il</b>	Mass movement	The downhill moveme gravity	ent of weathered material under the force of	Deposition – the drop		Where flow of water slows e.g. sheltered bays	Beach reprofiling	seabed destroys organism		
1	Mechanical	٠,	hat causes physical disintegration of rock	material	iping or	Where there are large flat beaches	Dune	+	dunes and increase vegetation to strengthen	
	weathering		the chemical composition of the rock			Where there are engineered structures e.g. groynes	regeneration	the dunes and prevent ex	ccessive coastal retreat. Maintains natural e consuming, areas off limit, limited area £200	
	Sliding		nes saturated and flows downhill	KI : Distinctive	coastal lar	ndforms are the result of rock type, structure and physical processes		– £2000 per 100 metres	e consuming, areas on minic, miniced area 1200	
	Slumping	A whole segment of the shear-plane or line of	he cliff moves down slope along a saturated weakness	Key terms	Definitions	physical processes	Hard engineering	Use of concrete and large	e artificial structures to defend the coast	
	Transportation	The movement of ero	ded material	Arch	A wave erod	led passage through a headland	Gabion		h boulders. £50,000 pre 100 metres. Cheap,	
	Waves	Ripples in the sea cau blowing over the surfa	sed by the transfer of energy from the wind	Bar	When a spit	grows across a bay to create a lagoon		<del>                                     </del>	ent, unattractive, last 5 – 10 years	
	KI : The co	-	number of physical processes	Beach		deposited material that extends from the low water line to the	Groyne		into the sea to stop longshore drift. £150,000 n, unattractive, causes problems down the	
	Constructive waves		Destructive waves	Cave	Large hole ir	n the cliff caused by waves forcing their way into cracks in the cliff	Rock armour	Large boulders dumped on the beach as part of the coastal defence		
	Powerful swash Weaker backwash		Weak swash Strong backwash	Cliff A steep high rock face formed by weathering and erosion along the coastline		1	£20,000 per 100 metres, quick to build, expensive to transport rock, rocks might not blend in			
	Long wave length Low wave height Gentle beach	ALTERNA TO A STATE OF THE STATE	Short wave length Higher wave height Steep beach	Headlands and bays		re promontories of resistant rock and bays lie in between where been eroded back	Sea wall		the energy of the sea and prevent erosion. effective barrier, promenade on top, ince	
	Types of weathering			Sand dunes	Coastal sand	hill above the high tide mark	Managed retreat	Allowing cliff erosion to	occur as nature takes its course. Cheap, natural	
	Mechanical weatheri	ng	Disintegration / break up of rock e.g.	Spit	A finger of s	ediment extending from the shore caused by deposition	process, loss of land, relocation of people		cation of people	
			freeze thaw	Stack	An isolated p	pillar of rock left when an arch has collapsed	Coastal Managem	nent Case Study: Lyme Regis	ent Case Study: Lyme Regis in Dorset	
	Chemical weathering		Caused by chemical changes e.g. carbonation, oxidation	Wave cut platform	A rocky level	shelf representing the base of retreated cliffs			built on unstable cliffs. Coastline is eroding more rapidly be due to the powerful waves from the South West	
	Mass movement	Downward movement of material under the influence of gravity		Carlo comment of the			*Many properties have been destroyed or *Considerable erosion of the foreshore *Sea walls have been breached many time		destroyed or damaged foreshore	
	Sliding	Blocks of rock slide d	ownhill		月年	Limestone (Nant)			mprovement Scheme was set up in 90s	
	Slumping	Rotational slip of sat	urated soil and weak rock	2. The lates grown 4. The specials of the lates by the la	Any III. The hanner thank is had not been	Cheron III	•	Work completed in 2015	n and reduce threat of landslips	
	Rock falls	Fragments of rock br	eak away from the cliff face	and advantage forming a value	and the same of th	Chale Parch	ļ ļ	project to stabilise cliff	New sea wall east of Rver Lim; £1.4 million	
	Styles of Mass Wasting Glide (or Slide) Starry Starry		the beach building process	and promenade, crearmour at the Cobb Phase 3 (not under undertaken as costs Phase 4 (complete involved – construct		and promenade, creation of varmour at the Cobb  Phase 3 (not undertaken):- Pundertaken as costs outweigh  Phase 4 (completed 2015): Fo	ocus on east of the town; £20 million and or 390m sea wall, nailing, piling and draining to			
Most likely in tayered nocks with beliating paints or in the paint of the paints of th		The Formation of a Significant Control of the Contr		Permettine of a Bar  The state of the state	effects and conflicts	New defences have stood us Harbour is now better prote Increased visitor numbers — sincreased traffic and litter soome people think new defe new sea wall may interferent tretches of coastline	ected, benefiting boat owners and fishermen			

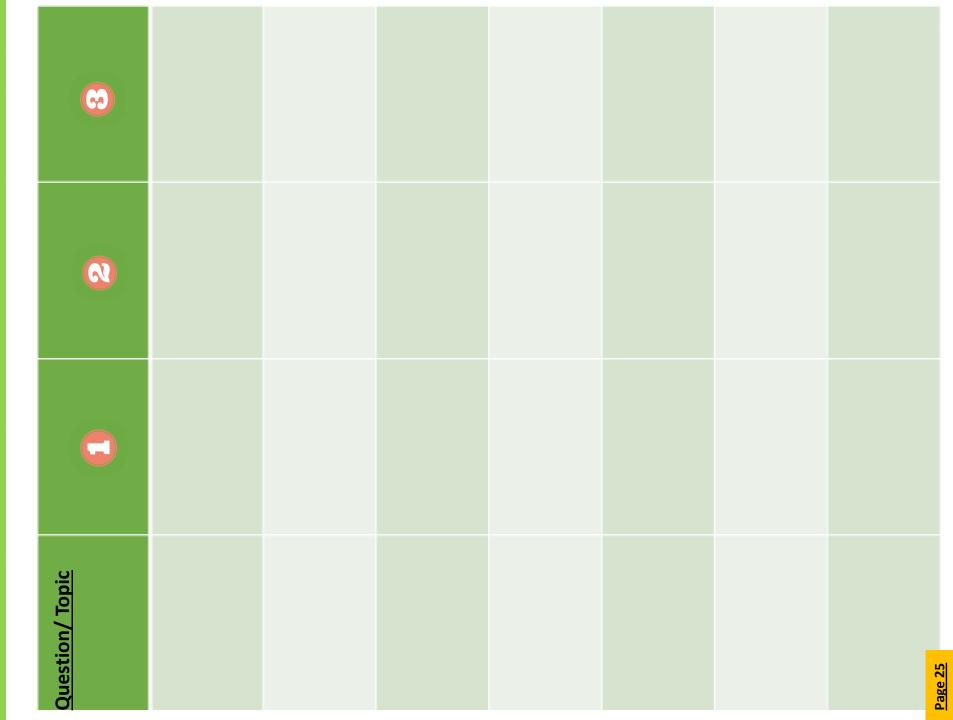
### DUAL CODING

Based on some key knowledge from your *History* or *Geography* knowledge organisers, can you assign different parts of this knowledge to images to help you remember this in the future? Consider your images carefully.

Image	Key Knowledge	Image	Key Knowledge	
		-		

# One, two, three... Geography/ History

Write down 3 points or responses to each of these questions/topics



# Geog your memory/ Hi-story Lane

colour pen, add in the knowledge that you missed out. This is the knowledge you should now continue to revise. Use the LANES to recall key information about a particular topic, from *History/Geography*, without looking at the sheets. Once you have added everything you can remember, look at these pages again and using a different Continue this process until you can remember everything on the page. Page 26



<u>WASH:</u> You can treat acrylic like watercolour when you dilute the paint with enough water. You can use the watered-down paint to apply translucent washes on your surface. However, unlike watercolour, the acrylic paint will set permanently.

<u>DETAILING:</u> A small, fine brush can be used to apply details, such as the whites of eyes or the glisten on the wing of a bird.



SPLATTERING: Using a fairly wet brush, you can flick or splatter paint onto a work surface for an uneven splatter effect. It's fantastic for creating an abstract landscape or a starry night or for just adding texture to a piece.

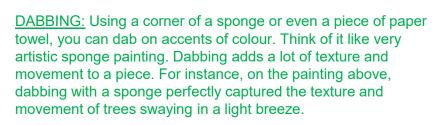
<u>LAYERING:</u> which can be combined with either of the two above methods, is simply to paint in layers. This means that you'll build the painting from the bottom up. You'll start by painting big blocks of colour, often as washes, and then adding more and more refinement as you add layers.





### **Acrylic Painting Techniques**

<u>UNDERPAINTING</u>: Start your painting by creating a "sketch" of the image in paint. Often this is done in a colour that contrasts with the palette you have in mind for the finished piece. You can paint over the underpainting entirely using opaque acrylic to cover any evidence of the paint below, or you can let parts of it shine through for a dimensional effect.

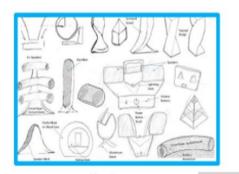


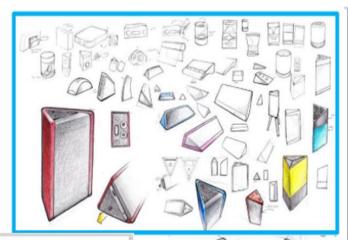


PALETTE KNIFE: Applying paint with a palette knife is an instant way to make your painting "artsy." It might seem intimidating or advanced, but it's a technique accessible even to beginners. Simply use the palette knife to scrape up a bit of paint and apply it to your work surface. Pretend that you're artfully spreading buttercream on a cake or even butter on bread, and you'll get the idea pretty quickly.

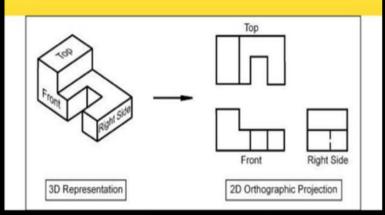
<u>MIXING</u>: Creating a family of colours or tones to work with in a painting can help you create subtle variances in your painting. Whether it's slight varieties of skin tones or varying shades of pink, having a family of tones pre-mixed before you paint can really help streamline the process.

R107: OCR Engineering design Designing and developing Ideas



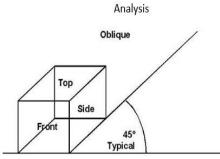


### ORTHOGRAPHIC PROJECTION.



Sketches





Two Point Perspective

### **Key Words:**

### Thumbnail sketch

Initial idea Developed idea Working drawing Dimension CAD Standardised Component

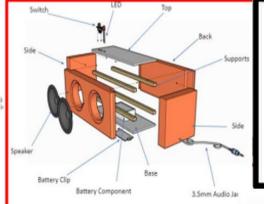
### Oblique

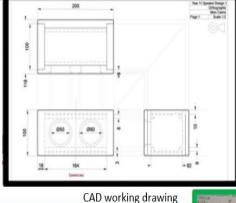
**One Point Perspective** Two point perspective **Orographic Projection** Freehand Thick and Thin lines Rendering Annotation

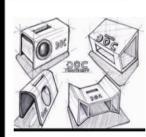
**Two Dimensions** 

**Three Dimensions Exploded View** 





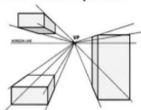




Isometric Drawing

Exploded

### **One Point Perspective**



Item	Material
Speaker x2	Standard componer
Outer Casing	HIPS
Buttons	Polystyrene
Part	te liet



Surveys and Polls



Final Sketch annotation

R108: OCR Engineering design Risk Assessment, Planning and Manufacture

Planning Steps/ Flow diagram **Manufacturing Specification** Risk assessment **Making Diary** Modelling, testing and Developing **Cutting list** Final Product- Range of manufacturing skill

Final Idea











Making Diary - each stage photographed Which PPE? What Material? Which Method?



Setting for laser Acrylic					
Colour line	Speed	Power			
Black (cut)	6	100			
Red (engrave)	400	21			
Blue (mark)	200	21			

Setting for laser MDF			
Colour line	Speed	Power	
Black (cut)	4	100	
Red (engrave)	400	21	
Blue (mark)	200	21	

Activity Equipment Persons at Risk Employees/Staff Visitors Contractors Step 1: Watch the demonstration and identify potential hazards Step 2: Decide who could be harmed and how Step 3: Evaluate the risks and decide on the control measures- add to if needed Step 4: record your findings and document what your actions will be Step 5: Keview, Kevise and update where necessary POTENTIAL

Laser Cutter settings



### Manufacturing Flowchart

You need to use a flow chart to explain how to make your product. There are different specific symbols for each stage of the process.



Start stop restart

Standard components for use

During manufacturing

Glue nails screws

speakers



Choice to be made



Instruction or action



Assembly and construction

Assembly process

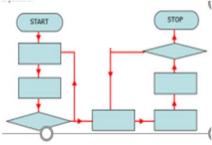


HAZARDS

The symbols are locked together by arrows which indicate the correct sequence of events,. This makes the flowchart as clear as possible.

Always start with the correct symbol, show each stage in a rectangle using clear easy to follow instructions You will need to add quality checks, which will require a decision to be made. Use feedback loops for any errors Consider adding more processes if necessary





Cutting List			
Rod Number	Date	Contract No: NSC/	
Job Title:			

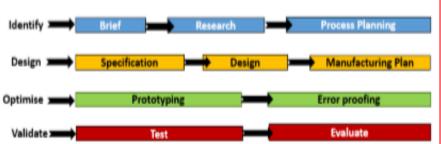
Final Prototype

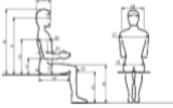
		Item De	scriptio	n (all	dimen	sions i	n mm)		
	Member	Member Material No Off		Fini	shed S	Sizes	Total Length	Remarks incl cross Section of material	
				L	W	T			
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

R105: OCR Engineering design **Examination Subject Knowledge** 

Quality Control: a system of maintaining standards in manufactured products by testing and checking. throughout the making stapes









Anthropometrics is the study of measurements of the human body

Ergonomics is the application of anthropometrics in order to make products and places efficient, comfortable and safe to use

Technology Push is when new developments in materials and technologies improve existing products/ create new ones Market Pull is when consumers demand improvements/new products. Often found by conducting market research





- A Design Brief is a statement of how you are going to solve the Design Problem.
- Research findings and Client feedback can be used to create a Process Plan.
- A Design Specification is a list of requirements your product has to meet in order to be successful.
- After a Specification has been developed, the designing of the product will begin.
- Once the final design has been chosen, a Manufacturing Plan is then created.
- Prototyping is the creation of a model or "mock-up" of a product after the Design Process
- Error Proofing is ensuring that the product cannot be assembled or used in an incorrect way
- Testing and Evaluation happens because designers need to ensure the product is successful before being released, and is competitive with the market.



British Standards Kitamark shows that a product has consistently rest the requirements of the British Standards Institute. Those regulations are of a higher mandards than European ones



Symbol shows that a product has constrictedly mat the relatingraregalitements of the EU





One-off Production

This is the manufacture

This item can be custom



Trade Descriptions Act

Sales and Supply of Goods

Act 1994

Consumer Protection Act 1987

The Waste Electrical and Electronic Equipment Regulations 2013

False or misleading information must not be given out about products. E.g. accurate information must be given out who made the product

All Products have to be of a "satisfactory quality. They have to

be safe, fit intended purpose, not be faulty

The right to claim compensation if a defective product causes death, damage or injury

The government regulate the amount of electronics going to landfill as the chemicals and electronics can harm the environment and wildlife Companies must provide electronic disposal for their products



of one item

made/ designed





Aesthetics - What the product looks like, style, colour

Customer - Who is the target market, how it will appeal to them, what Anthropometrics/ ergonomics will be used Cost - cost to make, cost to sell

**Environment** – where it will be used, is it sustainable Safety - how it will be safe to use, what standards and regulations it meets

Size - what dimensions it will be, as well as components and parts

Function – what the purpose of the product will be and what features it has

Materials - what it is made from Manufacture how it will be made

Product requirements are what a product has to meet/ must do. Common requirements are:

- · Features what makes a product unique and sellable
- Performance how well it completes its function
- Target Market how it appeals to its customers
- Working Environment how it is suitable for where it will be used
- Constraints what is must do or must not do
- Ergonomics how its comfortable and safe to use
- Lifecycle what environmental impact it makes (and how that can be reduced)

### Mass Production (High-Volume Production)

This is where large quantities of products are made (10,000s-100,000s) There are often assembly lines (for the main product) and sub-assembly (for small pieces and components)

### Continuous Production This is when large

quantities of products is produced (100,000s +) However, unlike Mass Production this is never ending production e.g. power plants

### **Batch Production**

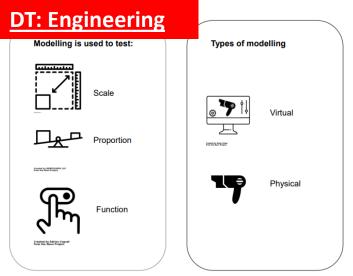
This is where small quantities of identical items are made (10s-1000s)

To ensure all items are identical, jigs, moulds and templates to aid workers

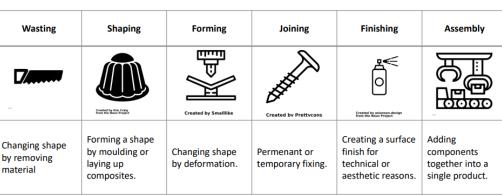
### Just-in-time production (JIT)

This is when products made to order, but can be used in conjunction with any other scale of production

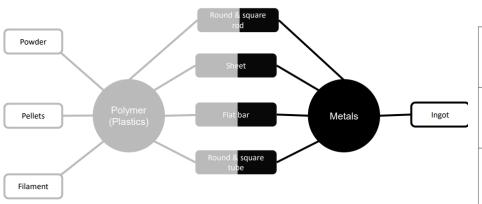
Page 30

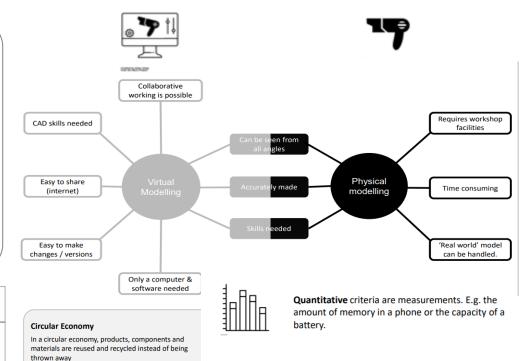




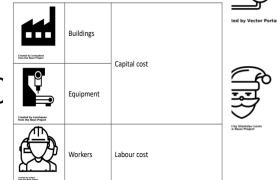


Polymers and metals have some stock forms in common. Other materials have their own standard stock forms.









Consumption

**Wants** are criteria that are not essential but desirable. E.g. 1950s aesthetic styling on a food mixer.

Qualitative data are based on opinions, impressions

and points of view. E.g. how comfortable a handle

should be or how attractive a bath tap must be.

### Isometric A formal 3D style drawing.

Start at the corner all lines

### Oblique Another 3D style that is less realistic that

Start with front 'face' then

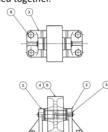
### Freehand sketching

An informal style used to communicate ideas quickly.



### **Assembly Drawings**

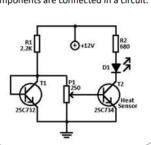
Drawings that show all components assembled together.



**Exploded views** A type of assembly drawings that shows space between parts.

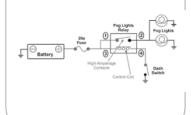
### **Circuit Diagram**

Used to show how electronic components are connected in a circuit.



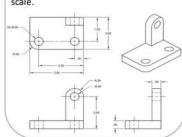
### Wiring Diagram

Shows how connections should be made within larger electrical systems.



### Orthographic drawing

A formal style of 2D drawing usually used to show dimensions. Drawn to scale.



### **Block diagrams**

A diagram of a system showing how stages relate to each other.

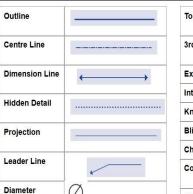
**Charging Wireless Headphones** 

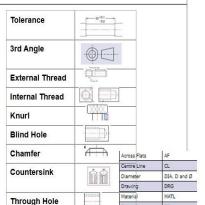


## Used to show a decision making process.

**Flowcharts** 

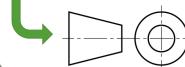
### **Working Drawings**

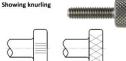




### Title block example

Title:	Desk lamp base	Date:	19/1/23	Drawn by:	P Miles
Scale:	1:1	Version:	3	Tolerance:	± 0.2 unless stated otherwise
ll dimen	sions in millimetres				





Straight Knurling	Diamond Knurlin

	1	$\perp \!\!\! \perp \!\!\! \perp \!\!\! \perp \!\!\! \perp$
	T	$\int \int $
common.		
		Т
ecceccococococo		

A/F	Across flats
CL	Centre line
Ø	Diameter
DRG	Drawing
MATL	Material
sq	Square

Command words	Meaning
Analyse	Separate information into components and identify their characteristics. Discuss the pros and cons of a topic or argument and make reasoned comments.
Compare and contrast	Show the similarities and differences.
Conclude	Make a decision after reasoning something out.
Define	Give the meaning of.
Describe	Give a detailed account of.
Differentiate	Explore and explain the differences.
Discuss	Explore the subject by looking at the advantages and disadvantages.
Explain	Describe, giving reasons and causes.
Evaluate	Give an opinion by exploring the good and bad points.
Identify	Recognise or prove something as being certain.
Illustrate	Show by explaining and giving examples.
Interpret	Explain the meaning by using examples and opinions.
Justify	Give good reasons for offering an opinion or reaching a conclusion.
Outline	Concentrate on the main points of the topic or item.
Summarise	Give the main points of an idea or argument. Leave out unnecessary details.

1 Marel C	Martiana	- Identify	Inama	Maha
I WIGIR C	<i>tuestions</i>	- Identily	mame	riube

2 Mark Questions - Identify and explain/ define/label 2 items

3 Mark Questions- Identify/explain/give reasons/ label 3 items

4 mark Questions – Often Identify/ explain and describe/label 4 items

5 mark Questions - Often Identify/explain/ describe/justify label 5 items

6 Mark Questions — Extended writing piece, needing detail, multiple examples and use of key terms. This is the only question in the paper that marks Spelling, punctuation and grammar.



BOX the command word i.e. describe, explain, evaluate, assess

A mark a minute

UNDERLINE key ideas to focus in, to understand what content will be needed in their answers.

GLANCE over the question to make sure you include everything needed



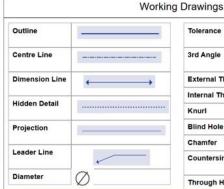
(b)	Award one mark for each valid reason e.g.	2	Accept suitable alternative answers.
	Guaranteed quality (1)		Do NOT accept 'they are easy to make/not complex to make.'
	<ul> <li>Less expensive to purchase / cheaper (1)</li> <li>Compatible with standard tools / no specialist tools required (1)</li> </ul>		Only award 'easier to understand' if qualified by 'global standards' / 'compatible with standard tooling' or similar
	Readily available / widely used / large quantities (1)     Easily replaceable (1)		
	Standards understood globally (1)	1	



If you get stuck write down all the key words that you know are relevant first at the bottom of the page. Then use this to start building your sentence. Tick off each key word as you go

Tip:
3 marks so 3 minutes
3 marks so 3 points to be made
Always make extra points if you can give an opportunity to gain marks
Explain so needs reasoning

Meaning
Express in precise terms, express in unequivocal terms
Give possible alternatives, produce an idea, put forward, eg an idea or plan, for consideration



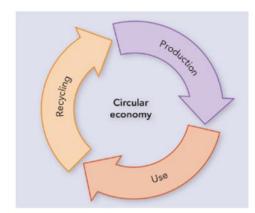
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	(46.00-50.00	Drawing	DRG
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mrough Hole		Square	SO

Discuss	Give an account that addresses a range of ideas and arguments

I have a variety of different chairs in my home. All of them have a seat, back rest and are supported by legs. It is possible to have a chair with three legs but most have four. The back rest is what defines the chair otherwise it could be called a stool. When buying a chair, I would consider the room it is for, the design and colour and the price. It is important that it is fit for purpose and that it is comfortable.

Explain	to give account of the purpose
	or reasons

A chair is used for sitting on. It normally comprises a seat; a backrest and is supported by legs. The legs are positioned in such a way so as to balance the chair, so that when it is sat upon it does not collapse or become unstable. Chairs can be made in many different styles and use a variety of materials. The design and material choice are reflected in the cost of the chair. Chairs are often used alongside a table, to support body weight at a convenient height whilst doing something at the table. Chairs can be produced in different sizes to make them suitable for individuals eg a child.



[3]

### **DT: Textiles**

Design Development – sketchbook pages

### **Development and refinement of ideas:**





### GCSE Textiles - AO4

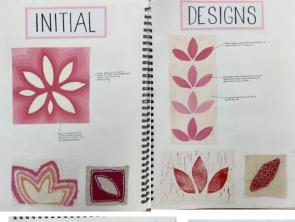
Present a personal and meaningful response that realises intentions and demonstrates understanding of visual language.

Use the words in the assessment objective to help you understand what it is you should do:

<u>Personal and meaningful response</u> –Your response to a source should be personal to you. What your feelings and reactions are. It must be meaningful by relating to your source inspiration. Make sure everything links and is not random.

<u>Demonstrates understanding of visual language</u> – being able to combine different textures, colours, techniques in an aesthetically pleasing way.

### **Initial designs:**











Final design – label with techniques you intend to use



Create a wide range of fabric samples before creating your final design

## Level 1/2 Hospitality and Catering:

Unit 2-2.2.1: Factors affecting menu planning





You need to be aware of the following factors when planning menus:

- portion control (value for money without waste)
  - balanced diets/current national advice
- time of day (breakfast, lunch, and dinner menus as
- well as small plates and snacks)

  clients/customers (a menu with prices that will suit the people who visit your establishment).

You need to know and understand the type of equipment needed to produce a menu. The choice of dishes will be influenced by the equipment available to the chef.

This includes kitchen equipment such as:

- hobs, ovens, and microwaves
- fridge, freezer and/or blast chiller
- specialist equipment, for example a sous vide or
- hand-blenders other electric equipment, for example food

- pizza oven
- hand-held equipment, for example electric whisks or
- processors.

The skills of the chef must be suited to the type of provision and the menu offered.

chef who has complex skills in preparation, A Michelin starred restaurant will require a cooking and presentation of dishes. A café will require a chef who has a range of medium and complex skills to produce a suitable menu.

establishment may only have a single chef A large restaurant will normally have a full kitchen brigade while a smaller with one or two assistants.

to wait for their dish to be prepared. Can the chef prepare, cook, and present more than one dish at the same time? Can some amount of time a customer may be willing The type of provision will influence the items be made in advance?

months. Hearty dishes such as stews are more suited to the winter. Special dishes linked to holidays such as Christmas and Valentine's Day may also be included. The availability of seasonal produce can also affect menu choices as certain commodities, for example strawberries, are less expensive The time of year can affect menu choices. Light and cold dishes such as salads are better suited to the summer when in season.

when planning a menu. Can the chef reduce the amount of ingredients bought as well as reducing food waste? Can the chef reuse ingredients to create new dishes for example stale bread made into bread-and-butter pudding? Can the kitchen recycle waste wherever possible? Running the The chef will need to think about environmental issues kitchen sustainably will save money.

Organoleptic properties are the sensory features of a dish (appearance, aroma, flavour, and texture). The chef will need to think about how the dish will look and taste. Is there a range of colours? Do the flavours go well together? Are there a variety of textures?

## Level 1/2 Hospitality and Catering: Unit 2: 2.2.1 Factors affecting menu planning - Environmental issues

eduqas

mjec

Many diners are interested in hospitality and catering provisions that provide sustainable dining.

reduce, reuse, and recycle, hospitality and catering provisions can save money at the same time as attracting more diners and bringing The aim of the three Rs of sustainability is to conserve natural resources and prevent excess waste. By following the rules of reduce, reuse,

Sustainability also means buying local produce, using organic ingredients, buying meat and poultry from farm assured producers who guarantee better welfare for the animals, using Marine Stewardship Council sustainable fish and offering meat-free versions of favourite dishes.

Food that is past its best, for example a brown banana, or scraps such as bones can be used to create new dishes which in turn will decrease food waste. www.lovefoodhatewaste.com has a vast range of recipe ideas for using surplus food.

- Bread: breadcrumbs, bread and butter pudding, bread sauce

Meat and poultry: bones can be used to make stocks.

- Fruit: banana muffins, apple crumble, fruit coulis, smoothies.
  - Vegetables: bubble and squeak, vegetable stock, vegetable bakes, omelettes
    - Eggs: whites can be used to make meringue; yolks can be used to make mayonnaise.

Food waste: If food and waste were its own country, it would be the third largest producer of greenhouse gas in the world! If it cannot be used to make new dishes or given away, then as much food waste as possible should be composted. Energy use: Hospitality and catering provisions can save energy in many ways

including using low-energy lighting, maintaining and upgrading equipment, putting lids on saucepans, batch baking and cooking.

Food miles: Using local suppliers means that the food does not have to travel as far from 'field to fork'

Water usage: Use less in cooking by only just submerging vegetables or using a steamer. Use an energy and water efficient dishwasher

Many hospitality and catering provisions have separate bins for recyclable materials. Professional kitchens should also have areas to separate waste into recyclable, non-recyclable and compostable materials. All staff should be trained to know how to dispose waste correctly.

Coffee grounds can be composted. Compost can be used to grow fruit, vegetables and herbs for use in the kitchen. Jars and plastic containers can be used for storage in the kitchen. Glass bottles can be used to hold flowers or candles as table decorations.

Too Good To Go, Karma and Olio are apps used by restaurants and supermarkets. Customers can buy discounted food which would otherwise go into landfill.

> A to Z of				Based on your <i>OPTION</i> SUBJECT, recall any key information from the current topic you have been studying.
[A]	[ <b>B</b> ]	; ;	C :	
[t]	[F.	· · - · - · - · - · - · - · - · - · - ·	6 !	<b>H</b>
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ij	1			Page 36

By the end of this topic, you should be able to evaluate your own performance in planning and leading a sports activity session...

### 5.1 Review your leadership of a sports activity session

### 5.1.1 Planning

- Positives What went well
- Negatives What didn't go well

### 5.12 Leading

- Positives What went well
- Negatives What didn't go well
- 5.1.3 Improvements that could ne made
- 5.1.4 Opportunities to develop leadership skills in the future

### Some issues that may have happened in your session:

- 1. You only spent 3 minutes on a drill and when moved on. Group could not do the next drill.
- 2. Learners weren't motivated to do the drills.
- 3. You couldn't see all the group as you were leading the session.

Consider what you could do differently next time.

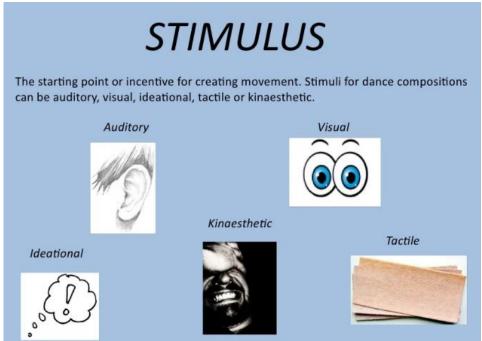
### **Exemplar:**

My first strength was my creativity within my session plan. I planned two thoughtful drills which I researched on the internet. This meant that I knew exactly how to set them up and I had all the distances written down so the spacings were realistic which meant that the drills ran smoothly. The teacher that observed me said that my drills were very good and that everyone was motivated.

Once I explained my drill the class engaged in the drill fully and seemed to really enjoy it and they looked like they were trying hard. I made it a competition by saying that pupils had to grab a bib once they had scored and take it back to their team and then the first team back with all their bibs were the winners. This motivated both teams as they could see the other teams getting bibs and were able to see if they were losing so that motivated them to try even harder.

Pupils were demonstrating a good shooting technique and they started to score more baskets as the session went on. I was really pleased with this drill and think that it worked well.

### Year 11 Dance: Creating a dance



### **Choosing your stimulus**

- A stimulus is something that inspires you to create a dance and provides a starting point for you to explore movement ideas.
- Artists respond to the world around them, whether they use movement, sound, images or words.
- Some artists have an important or serious message to communicate.
- Some artists enjoy playing with the material and ideas that they generate.
- You can stick very closely to the stimulus using it to guide or shape the material.
- Your dance might develop in a different direction, once the stimulus has done its job of getting you started.

### How to select your stimulus

- When you have an idea for your dance and you think it will fit the theme, research it further, see what information you can find that will help you.
- > Is there any professional works that you can find that are similar that can help influence your work?
- Create a detailed mind map of your ideas to help you when you are in the creative process. Think of the emotions, the energy, the dynamics, type of movements, genre etc. that are needed to help meet with your stimulus and tell your story.
- > If the mind map is hard to complete or a bit empty, don't be afraid to "bin" that stimulus and try another one
- What social, historical, cultural, political or community will influence your work?

### Planning/aims of the activity:

- The purpose
- Timescales
- Resources needed
- Safety
- Communication
- Appropriateness
- Methodology
- Demonstration
- Group work
- Individual contribution
- Feedback methods

### **Useful sentence starters:**

The impact is...

As explained by ...

This is important because...

In reflection ...

Overall ...

I think that ...

Their needs would be met by...

This is suitable because ...

The benefit is...

The advantages is ...



### **Delivering a creative activity:**

- Introduce the activity
- Aims
- Content
- Settle the individual
- Supervise the activity
- Encourage participation
- Intervene when necessary
- Provide support
- Maintain safety
- Keep to timescales replenish resources/materials
- Collect feedback

Furthermore
As well as
Another essential point
Consequently
Firstly, . . . secondly, . . .
thirdly, . . . finally, . . .



### **Evaluation**

- How to use feedback
- Self-reflect
- Review strengths and weaknesses
- Communication skills
- How you encouraged them
- Suggest improvements: What would you do differently, why?







Based on your *OPTION SUBJECT*, create questions for each square on the grid. Once you're done, take it in turns to roll two dice and answer the corresponding questions.

	1	2	3	4	5	6
1						
2						
3						
4						
5						
6						

### **Business Studies**

	Job Production			
Advantages			Disadvantages	
•	Products are usually	•	Costs Of production	
	high quality;		will be high;	
•	Product can be	•	Labour costs may be	
	made to meet the		high because job	
	needs of the		production often	
	individual customer;		require skilled	

### **Production Processes**

products:

- one type of good is produced

computers can be programmed to produce a variety of

Machines can work 24 hours a day, 7 days a week; Machines can do dangerous and boring jobs that

human works may be reluctant or unable to do;

New technology can lead to new products creating

demand - think tablet computers and mobile phones.

The machinery is never absent from work;

Flow Proc	duction
Advantages	Disadvantages
<ul> <li>Large amounts can be made;</li> <li>The costs of production for each unit made are low because the firm benefits from economies of large-scale production;</li> <li>Machinery can be used, helping to keep costs low;</li> <li>Improvements in technology means that not all of the products need to be the same: some variations in design can be programmed into the computer-controlled machines.</li> </ul>	<ul> <li>Goods are mass-produced and may not be of good quality, although this is not always true;</li> <li>It is very expensive to set up a production line;</li> <li>Large stocks of materials may have to be kept to keep the production line supplied and this may be expensive;</li> <li>If the production stops at any point on the assembly line (because of a mechanical breakdown or industrial action) there may be</li> </ul>
Good produced on an assembly line	a complete shutdown of production;

Each product is made individually to meet the specific needs of the customers.

### Advantages Disadvantages

labour.

 The needs of different customers can be met by making batches of different goods;

finished.

Workers often get

more satisfaction from working on

something until it is

- Batches are made to meet specific orders from customers and this may reduce costs because the goods do not need storing;
- It may be possible to use specialist machines and to automate production so that costs are saved.

Producing one type of product for a time and the changing production to another type of product.

E.g. bakery baking one type of bread (white) and then another (wholemeal)

- It takes time to switch production forma batch of one product to a different batch. Machinery may need to be reset. This adds to the costs of production and reduces output;
- It may be necessary to keep stocks of materials and components to be able to switch production when required. Holding stock is a cash flow problem – the materials have been paid for but revenue is not being earned. There are also storage costs;
- There will usually be less choice of products for customers compared with job production;
- The tasks may be repetitive and boring for the workers.

	Technology in Production Processes				
Advantages			Disadvantages		
•	Costs are reduced as the number of workers required is reduced;	•	Workers may be redundant when the new technology is introduced and this may result in redundancy payments,		
•	Machines can be more accurate than human workers, improving quality and reducing waste – again helping		adding to the short-term costs of the business;  New skilled workers may need to be recruited. Often,		
	to cut costs;		the types of workers needed are in high demand and the		
•	Production can be more flexible because the		business may have to pay them big salaries;		

boring.

 It can be expensive to buy and finance the purchase of technology;

Workers may need training to work with the new

technology, which adds to the business costs;

Machines can break down and this will disrupt

Jobs on an assembly line can be repetitive and

- Customers sometimes do not like technology as with automated telephone systems;
- Where systems store data about people, there are security issues.

Examples of technology used in production processes = automation and robotics

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Computer Science

**Network Security** 

d to Networks

1. Forms of Attack		2. Threats posed	ose
Malware	Software written in order to infect computers and commit crimes e.g. fraud or identify theft. Malware exploits vulnerabilities in software	Malware	• •
Types of Malware	Malware is term that covers (among other things) viruses, trojans, worms, ransomware, spyware and adware		• •
Phishing	Online fraud technique used by criminals. It is designed to get you to give	Phishing	•

vorms,	to give stails, e in an
Malware is term that covers (among other things) viruses, trojans, worms, ransomware, spyware and adware	Online fraud technique used by criminals, It is designed to get you to give away personal information such as usernames, passwords, bank details, credit act details Achieved by disguising as a trustworthy source in an

nts, credit cards, cashing illegitimate cheques.

Financial services can blacklist the company

Gain access to high value co

Open bank acco

Accessing a victim's account to withdraw money, or purchase

Keyboard inputs are logged and sent to hackers.

Files are deleted, become corrupt or are encrypted. Computers crash, reboot spontaneously and slow down.

credit card details Achieved by disguising as a trustworthy source in an electronic communication, e.g. an email or fake website. A trial and error method used to decode encrypted data (such as	Brute Force
passwords). Uses every combination until it hits upon the correct one.	Attack
Denial of Service attack. Floods a server with useless traffic causing the	300(0)
servento become overloaded and unavailable	מווא כסק(ס)

Brute Force Attack

DOS Attack	Denial of Service attack. Floods a server with useless traffic causing the server to become overloaded and unavailable
DDOS Attack	DDOS Attack Distributed Denial of Service Attack. Using multiple computers (zombies) in a Botnet to undertake a DOS attack
Data Interception and Theft	Stealing information from an unknowing victim's computer in order to get confidential information, or to compromise their privacy. E.g. to sniff usermanes and passwords

### attack using an unknown and undocumented vulnerability in software (unknown to the code owner) 3. Identifying and Preventing Vulnerabilities code (unknow Attack

Writing passwords down on sticky notes attached to computers. Sharing passwords.

memory sticks / laptops.

Contents of databases can be output, revealing private data. Data in the database can be amended or deleted.

Usernames and passwords compromised Disclosure / theft of corporate data

Data Interception and Theft

SQL Injection

A technique used to view or change data in a database by inserting additional code into a text input box, creating a different  $S\Omega L$  command

SQL Injection

Zero Day

People

Damage to reputation

Lower productivity

Loss of access to a service for customers Lost revenue

D)DOS Attack

Access to corporate systems.

Theft of data.

New rogue records can be added to the database

Many system vulnerabilities are caused by people being

Not installing operating system updates.

Not keeping anti-malware up to date.

Not locking doors to computer rooms.

Not logging off or locking their computer.

Leaving printouts on desks.

Not locking doors to computer rooms.

- Strong security software. Staff training: awareness
  - Staff training: awareness of spotting fake emails and websites. Staff training: not disclosing personal or corporate information Staff training: disabling browser pop-ups.

    - Network lockout policy, Using progressive delays.
- Strong firewall and packet filtering Properly configuring servers and auditing and monitoring systems Staff training

D)DOS Attack

Brute Force

Attack

Phishing

Not applying security to wireless networks. Encryption and using virtual networks Staff training and computer use policies Not encrypting data. Losing r Data Interception and Theft mation.

# Knowledge Organiser 7 : Systems Software

## Systems Software is the software used to control the hardware of the computer. It is contrasted to application software which is used to enable Systems Software

1. Definitions

Memory Management An operating system is a piece of system software that communicates with the hardware of the computer and allows other programs to run. It is comprised of system software, or the fundamental files your computer the user to perform tasks and create content and products

Operating System

Peripherals are controlled by software called device drivers. Standard drivers (mouse and keyboard) are included in the operating system, however more specialist peripherals may need drivers programmed by needs to boot up and function

Peripherals

When programs are loaded, the operating system decides where they are held in memory. Over time the memory becomes fragmented as programs are loaded and closed because they use different amounts

of memory. The operating system must keep track of different program fragments. When the memory is full, the operating sy

uses virtual memory

Device Drivers

between them such as copy and paste, it also enables you to listen to music on your PC at the same time as word processing for example

User Management Utilities are programs that are installed to perform a specific function, the manufacturer which convert signals into machine code and are usually to improve the efficiency or security of a computer system installed separately

## 2. The Function of Operating Systems What does an

Software

Utility

An operating system manages all of the software and hardware on the computer. Most of the time, there are several different computer programs running at the same time, and they all need to access your co-ordinates this activity Operating system do? Interaction

A user interacts with the computer by means of an interface provided by processing unit (CPU), memory, and storage. The OS

## <u>g</u>

A Graphical User Interface provides windows, icons, menus, (mouse or other) pointer... Sometimes calls WIMP. It is visual, interactive, and intuitive. Optimised for mouse/fouch input the operating system 3. Types

A Command Line Interface is text based. It uses less resources than a GUI. It is more efficient but harder to learn. Often repetitive processes can be

A Menu Interface presents successive menus to the user with options to choose at each stage. Often used with buttons on a keypad. (Think calculator when you press the 'MENU' button) automated with scripts

## Running multiple applications at the same time by giving each application a small time-slice of processor time. This allows more than one program to be held in memory at a time, and data shared 4. Features Often Provided by an Operating System

Multitasking

Validation on text boxes

SQL Injection

Database permissions

Data is stored in files. An extension to the filename tells the operating system which application to load the file into. Files can also be placed

in folders for ease of organising

of Utility Software

5. Examples

system will retain settings for each user, such as icons, desktop backgrounds etc. Each user may have difference access rights to files

and programs. A client server network may impose a fixed or roa

profile for a user, and manage login requests to the network.

Providing for different users to log into a computer. The operating

Translates operating system instructions into commands that the hardware will understand. Each peripheral will need a device drivens the control of the control will need and exidence of the control of

and many common ones are built into the Operating System

File Manage

## Encryption utilities use an algorithm to scramble plain text into cipher text. It can be decrypted and read again with a Key Defragmentati Encryption

the disk, which speeds up file access. Solid state drives should not be defragmented (it is unnecessary as they have no moving parts. It also Defragmentation utilities reorganise files on a hard disk, putting fragments of files back together, and it collects together free space. This reduces the movement of a read/write head across the surface

reduces their lifespan)

Compression utilities reduce the size of a file so that it takes up less space, and is quicker to download/upload.Compressed files must be extracted before they can be read. Compression is lossy or lossless Compression

Backup utilities take a copy of the data and place it elsewhere (disks, tapes, cloud, etc.). Backups can be either full (backup everything) or incremental (back up changes since the last backup).

Backup

A Natural Language Interface responds to questions in a spoken language. They are not always reliable but are improving all the time. (Think Siri or Alexa)

Language

Natura

Menu

급

Com	puter	Sci	en	
COIII	putti	<u> </u>	<u>CII</u>	U

### Knowledge Organiser 13 : Producing Robust Programs

Validation

Type Check

Length Check

Why use input

Authentication

How to refine

validation?

### 1. Input Validation

Does not ensure that the data entered is correct, just that it is possible

The input is within a correct range, E.g. Between 1 and 2 Range Check

Presence Check Some data has been entered. E.g. Reject blank inputs

The input is in the correct data type, E.g. Integer, Real, String

The input is in the correct format. E.g. dd/mm/yyyy Format Check

The input has the correct number of characters. E.g. 8 or more chars

 The program is more robust The program is more user friendly

2. Anticipating Misuse

· To prevent further errors occurring later in the algorithm

### In mathematics, there is no number which when multiplied by zero Division by Zero

returns a non-zero number. Therefore the arithmetic logic unit cannot compute a division by zero.

Communication Online systems require connections to host servers. If this connection is dropped, unable to be established or the server is overloaded, it could potentially cause a program to crash or hang when loading/saving data.

Error Any peripheral may be in an error mode (e.g. paper jam) Peripheral Error Disk Error

Programs that read and write to files must handle exceptions, including: · The file/folder not being found.

· The disk being out of space. The data in the file being corrupt.

The end of the file being reached

Username and password to access systems.

· Password recovery by e-mailing to an authenticated e-mail address. Encryption of data files. Check for human and not bot attempting access (e.g. reCAPTCHA)

6. Refining Algorithms

· Code should anticipate all inputs and it should deal with 'bad' What do we mean data, or missing data, and not crash. by refining? . It should ensure prompts to the user are helpful and that the input can only be of the correct type

Many languages have exception handling commands

Comments These explain the purpose of the program, or a section of code. They

3. Maintainability

White Space

Indentation

Constants

may also explain any unusual approaches or temporary 'fixes'

Make each section of the code stand out. Use spaces so code is not cramped up and hard to read

Mandatory in Python but use indentation to show the flow of the program Use sensible variable names that have some meaning as to what they

Variable Names are being used for Sub Programs Use Procedures and functions to structure the code and eliminate

duplicating portions of it

Declare constants at the top of the program

4. Testing

Iterative Testing

Final / Terminal

Invalid Inputs

Erroneous Inputs

Testing

Reasons for Testina

· To ensure there are no errors (bugs) in the code.

. To check that the program has an acceptable performance and usability.

· To ensure that unauthorised access is prevented.

· To check the program meets the requirements

 Each new module is tested as it is written. Program branches are checked for functionality.

· Checking new modules do not introduce new errors I not existing . Tests to ensure the program handles erroneous data and

exceptional situations. Testing that all modules work together (integration testing)

 Testing the program produces the require results with normal. boundary, invalid and erroneous data.

· Checking the program meetings the requirements with real data.

5. Suitable Test Data

Normal Inputs

Boundary Inputs

Data which should be accepted by a program without causing errors

Data of correct type on the edge of accepted validation boundaries

Data of the correct type but outside accepted validation checks

Data of the incorrect type which should be rejected by a computer system. This includes no input being given when one is expected

1. Key Terms

# Knowledge Organiser 11 : Programming Fundamentals 1

Variable	A value stored in memory that can change while the program is runni
Constant	A value that does not change while the program is running, and is assigned when the program is designed
Operator	A character that represents an action, e.g. "+" is a mathematical Open
Assignment	Giving a variable or constant a value
Casting	Converting a variable from one data type to another
Input	A value that is entered into the program after the program has started running
Output	A value that produced by the program and either saved or displayed the user
2. Correct U	2. Correct Use of Data Types

2. Correc	2. Correct Use of Data Types
Integer	A positive or negative whole number used when arithmetic will be required
Real / Float	Real / Float A positive or negative decimal number
Character	Character A single alphanumeric
String	Multiple characters joined together [n.b. use this for credit card numbers]
Others	Some languages have others, e.g. date, picture

3. T	e Three	3. The Three Basic Programming Constructs	onstruct	
Sequence	ıce	Executing one instruction after another	ifter anoth	er
Selection	uo	Program branching depending on a condition	ding on a	condition
Interation	ou	sometimes called looping, is re controlled or count controlled	is repeatir led	sometimes called looping, is repeating sections of code. Conditio controlled or count controlled
4. Co	mmon /	4. Common Arithmetic Operators	5. Con	5. Common Comparison Ope
+	Addition	u	==	Is equal to
	Subtraction	tion	<u></u>	Is not equal to
*	Multiplication	cation	v	Is lesser than
	Division		٨	Is greater than
<	Expone	Exponentiation	= >	Is lesser than or equal to
MOD	Modulus	s	= ^	Is greater than or equal to

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AND	
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(Je	ne string in characters	ppercase	owercase	iracters of the string	naracters of the string	
6. Basic String Manipulation (general)	Obtains the length of the string in characters	Converts the string to uppercase	Converts the string to lowercase	Gets the left-most n characters of the string	Gets the right-most n characters of the string	
6. Basic String M	string.length	string.upper	string.lower	string.left(n)	string.right(n)	

ASC(char)	Returns the numerical ASCII value of char	
Note : this is NOT the way things are do particular Python does things differently	Note : this is NOT the way things are done in any particular programming language. In particular Python does things differently	
The Paris Contract of		_

string.substring(a,b) Gets b characters of the string starting at position a

e required

2

7. Basic File Han	7. Basic File Handling Operations (OCR Reference Language)
myFile=open("")	Open a file
myFile.close()	Close a file
myFile.readLine()	Read a line from a file
myFile.writeLine()	Write a line to a file
myFile=("")	Create a new file
string.substring(a,b)	string.substring(a,b) Gets b characters of the string starting at position a
A Workflow	myFile = open ("sample.txt") while NOT myFile.endOfFile() print (myFile.readLine())

Note : this is NOT the way things are done in any particular programming language. In particular Python does things differently myFile.close()

myFile.write("Hello")

endwhile

## : Programming Fundamentals Knowledge Organiser 12

3. Arrays

Definition

## 1. Storing Data in Records

- Stored on the secondary storage (hard disk/SSD/flash).
  Used to store data when the application is closed.
  Useful for small volumes of data. E.g. configuration files. In Text Files

An array is a series of memory locations - or 'boxes' - each of which holds a single item of data, but with each box sharing the same name. All data in an array must be of the same data type

2

Indexes usually start at 0 for the first data item (known zero indexed).

Each entry is stored on a new line or separated with an identifier such as a comma or tab.

Use

- Can require a linear search to find/read data which is slow (if there
  - no order to the data or record structure). Structured text files E.g. CSV, XML & JSON are popular for storing and exchanging data between applications
- Stored in RAM. In Arrays and Lists

- of data to be Used to store data when a program is running. Useful for small volumes of data an algorithm is using. Can be single or multi-dimensional allowing for tables
- Uses indexes to refer to data items. Efficient algorithms or linear searches can be used to find data . .
- data shared by many users, e.g. ticket booking Often stored on remote servers. used to sto

In Databases

- Data is stored in records and fields.
- . . .
- Uses advanced data structures to store data efficiently. Uses very efficient algorithms to search and sort data executed on
- A collection of related fields.

The order of the fields in the database in independent of the code

More secure than text files.

. .

the servers.

- Each field in ercord can have a different data type.

  Note the dot syntax when using records: record-dot>Field

  e.g. car1.Make
- which fields to be returned. \* can be used to indicate all fields

2. SQL

SELECT

which table. Databases can have more than one table, each with their

records meet a condition. LIKE and % can be used as a wildcard

SELECT name, age, iq FROM person WHERE name LIKE 'FIS%'

### two dimensional arrays are still stored in a linear fashion Structuring code into sub-programs makes the code easier to read Arrays may be single or multiple dimensions. Visualise dimensions as a column (single dimension) or table (two Larger programs are developed as a set of sub-programs called subroutines. dimension) In Memory ta 4. Sub programs Why Use them Functions

	<ul> <li>and debug.</li> <li>Each sub-program can easily be tested.</li> <li>Sub-programs can be saved into libraries and reused in other programs</li> </ul>
	Functions return values and create reusable program components.
se	Procedures create a modular structure to a program making it easier to read. They do not return values

## 5. Random Numbers

Deterministic	Programs that run on computer systems are deterministic - with exactly the same inputs they should produce exactly the same outputs.	
Real World	Randomness is easy to produce in the real world - spinning a wheel, rolling a dice and so on are millennia-old techniques but producing the same randomness in a computer program is actually rather tricky	

Computer

- Computers do not produce random numbers et all
  They use complex mathematical techniques to produce a series of
  numbers that may appear random but are really only an
  approximation to randomness (called pseudo-random numbers)
- myVariable = random (1.6) will produce a random number between and 6 We refer to them as random numbers anyway OCR Reference Language

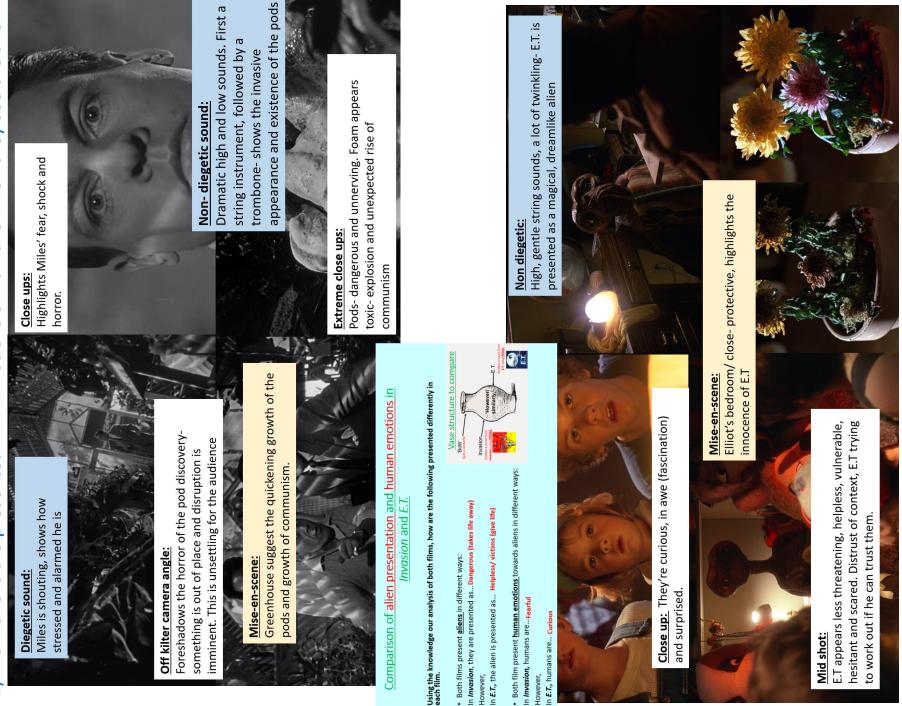
Example

WHERE FROM

# Paper 1 Section A: US Comparative Study Sci-Fi

## **Body Snatcher and** Invasion of the

Emotions of humans when they see the alien 1). How aliens are presented AND



**Snatcher?** 

# Aliens as 'the other

\* different, unusual How are the aliens presented as \*'the other' in Invasion of the Body

Focus your analysis on the effect of the aliens in the following scene.

- Invading
- Taking over the city and peoples lives
- according to the family Giving out seed pods needs which is communism
- Dangerous-want to cause death



Analysis:

-Body language- all the

Diegetic soundsame, uniform

Giving out orders

Alarms and sirens- danger

Diegetic sound-

that awaits them

invasion is spreading. It's affecting a large group of Establishing shot- their

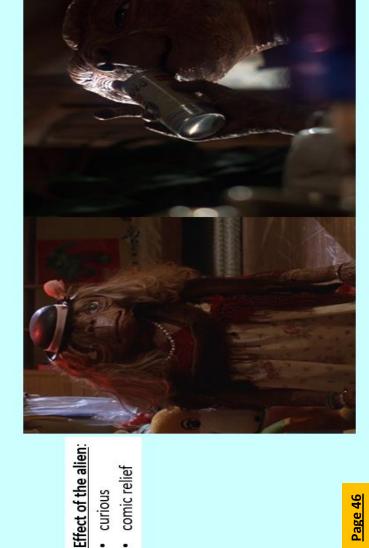
## Aliens as 'the other

\* different, unusual

people

How are the aliens presented as \*'the other' in E.T.?

Focus your analysis on the effect of the aliens in the following scene.



comic relief

curious

Props and costume: Analysis:

woman, want him to Dressed like an old ook human

Drinking beer- curious **Body language:** 

affected by it. Behaves about how he will be ike a human

Dialogue:

to continue speaking in Shocked and asks him English.

Page 46

# Comparison of themes in Invasion and E.T.

Using the knowledge and analysis of both films, how are the following presented differently in each

Vase structure to compare

'Both'

Both films present fear of the unknown in different ways:

In Invasion, this is presented when... Miles and Becky are hiding

However,

In E.T., fear of the unknown when... Elliott hides E.T.

'However' Similarly Invasion. Analyse a scene

Both film present aliens as 'the other':

In Invasion, the pod-people are... invading, taking over human lives, dangerous, want to cause death, VILLAIN

However,

In E.T., the aliens is... Curious, comic relief, victim

# Fear of the unknown

When in the films is theme presented?

Think about the 'closet' scenes in both films. Why are these characters in there for? What do they fear?

Camera shot and body

threatening to the children.

Mid shot- ET appears less

- Low angle. Makes the pod people crippled to the floor by the fear superior. Miles and Becki are appear as though they are overtaking everything, are
- Whispers highlight the fear they Diegetic Sound
- Top lighting:

Represents the pods as things to be feared.





like, make ET appear inviting, twinkling, magical-fantasy NON- Diegetic Sound: no fearful

Soft/ subtle lighting, ET Colour/ lighting:

appears warm and inviting





## Camera shot-

Establishing shot of Miles in middle of the road, with cars driving past. Represents how the idea of communism is here and people are ignoring the dangers it could bring. Highlight how he is alone in the situation-small minority of people either agree/disagree with communism.

No reinstatement of equilibrium because communism was still a threat.

### <u> Analysis:</u>

## -Body language- ...

Miles is running away from the pod people, the reinstatement of equilibrium is out of reach. Frantic movement mimics how the situation is the same and will not be resolved. Running away from communism (the pod people).

## Diegetic sound

Miles is shouting "you fools, we're in danger". Society was chaotic at the time and their view of communism was extreme. Sounds of horns beeping and tyres screeching represents the disruption, warning and danger of communism.

## Non- Diegetic sound;

Violin sounds vary in pitch (high and low), dramatic in nature, could represent the chaos society was in at the time and cries of people

## Camera shot-

<u>Low angle shot</u> of E.T. he was empowering Elliot and his family.

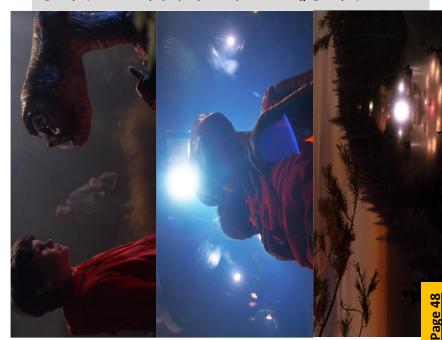
Lightening- Most of the lighting is prominently high key lighting. Back lighting. Shows how ET has the one that provided the comfort and love of a fatherly figure which was lacking during the time the film was made.

Non- Diegetic sound of xylophone, trumpet, string, trombone, high emptions, triumphant reinstatement of equilibrium.

### **Analysis:**

## Camera shot-

Establishing shot of Spaceship- E.T. bought hope and joy to Elliot's household (dad not there) and now to himself because he's going home.





### Comparison of the ending in *Invasion* and *E.T.*

Using the knowledge and analysis of both films, how are the following presented differently in each film.

Both films present the <u>ending</u> in different ways:
 In *Invasion*, this is presented when... <u>Miles makes a shocking discovery</u>
 However.

In E.T., the ending shows the reinstatement of equilibrium when...



### **Invasion of the Body Snatcher- 1956**

### Context of the film:

### The events before and after the making of the film.

- The Cold War- a long period of tension between the US and Russia;
- Communism is system of social organisation in which all property is owned by the community and each person contributes and receives according to their ability and needs;
- Communism was a threat to the US, as the US was recovering from the Great American Depression;
- The space Race between Russia and America;
- Americans believed in aliens after the Roswell incident in 1947;
- Fear of brainwashing in American society., as a result of the Korean/ Vietnam War
- The aliens 'pod people' represent American fears of Russian invasion



E.T- 1982
Context of the film:
America in the 1980s

- Lost trust in its government, its army and with each other.
- <u>President Nixon Watergate Scandal-</u> cash was stolen to help fund his re-election campaign.
- If the President directly lied to the American people, you can see why
  the early 1980's was seen as a period of distrust in American society.
- The biggest difference between the 1950s and 1980s was thus an increase in lone parent families,
- There was a huge rise in the divorce rates
- The government were not trusted Vietnam and a whole series of events in the 1970s meant that Americans did not trust authority

Key Word	Meaning
Clef	Musical symbols (including Treble, Bass, Alto, Tenor/C-clefs) placed at the left-hand side of a musical stave, indicating the pitch of the notes written on it to the performer.
Concert Pitch	Refers to the pitch reference to which a group of musical instruments are tuned for performance. An internationally agreed standard is for the tuning of musical instruments, in which the note A above middle C. has a frequency of 440 Hz.
Descriptive Music	Also called "Programme Music". Descriptive music suggests visual images or "telling a story". The descriptive idea or storyline is known as the "programme". The opposite of descriptive music is "absolute music" which is music that doesn't attempt to describe something particular and is more concerned with form and structure.
Elements of Music	Several different things which have often been called "the building bricks of music" and include: Pitch, Dynamics, Duration, Tempo, Texture, Timbre/Sonority, Attack and Decay and Silence. When a composer creates a piece of music, they use the elements of music to build it, just like a builder uses bricks.
Ensemble	A group of musicians who perform together.

### BTEC Music Knowledge Organiser- BTEC

Describe some of the capabilities and limitations of your own instrument voice or technolody in terms of its range and characteristing timbre.

Describe how your own instrument, voice or technology's use is influenced by context and culture.

Describe how your own instrument, voice or technology is used in different genres.

Describe what types of ensemble your own instrument, voice or technology might be used in.

Describe some of the capabilities and limitations of your own instrument voice or technolody in terms of the techniques required to play it and any techniques specific to it.

### **TA2: Stages and types of play**

Types of play	Definition
Solitary Play	Playing alone.
Parallel Play	Playing alongside others.
Associative play	Some playing with each other.
Co-operative play	Playing with someone else.

Types of play	What is it?	Examples
Manipulative Play	This involves children using their hands, (fine motor skills). For example, to move, turn or screw things to make them fit.	<ul> <li>Puzzles;</li> <li>Mark making (drawing/ painting/ writing);</li> <li>Shape sorters;</li> <li>Threading beads;</li> <li>Craft activities.</li> </ul>
Co-operative play:	Play which takes account of others actions within their play together: sharing, group play e.g. shop keepers and customers or games that have rules to follow.	Board games; Circle games (here we go round the mulberry bush/ the farmers in his den); Playground games (what's the time Mr. Wolf?); Imaginary role play (dressing up/ toys/ teddies/ tea sets); Imaginary play with small world toys (cars/ farm set/ dolls house).
Solitary play:	Where the child plays alone, in their own space, exploring and experimenting with objects.	Imaginary play (role play/ small world play);     Puzzles;     Books;     Video/ computer games.
Physical play:	Play that involves gross motor skills, the muscles and moving around, such as football or a climbing frame.	<ul> <li>Ball games;</li> <li>Running/ jumping/skipping/ hopping/ crawling etc;</li> <li>Playground equipment (slides/ swings), Ride- on- toys and bikes;</li> <li>Push and pull toys;</li> <li>Dancing.</li> </ul>
Creative play:	Where children experiment with materials, collage, painting, music, imagination.	<ul> <li>Music and dance;</li> <li>Mark making (painting/ drawing/ writing);</li> <li>Making models;</li> <li>Sand and water play;</li> <li>Stories and imaginary play.</li> </ul>

### **Creative iMedia**

purpose, client requirements and target audience.

<u>Creative livieura</u>		
	R085 – Developing a Multi-Page Website – L03	
1: Remember the Scenario!	2. Strengths	3. Weaknesses
At the start of this unit you would have been given a scenario or client brief that outlines what needed to be done for the Website and who it should be aimed at. The first part of the review should go back over the client requirements and target audience and you should give a brief overview of what they were and whether you think your Website meets the full requirements and is suitable for the target audience. These points can then be expanded on when discussing the strengths, weaknesses and improvements.	The strengths of a document are anything that makes it suitable or effective for its purpose. Some common examples of strengths to look out for are in your Website are:  Does it meet the requirements of the client?  Is it suitable for the target audience suggested?  Do all of the links on the navigation bar work  as intended?  Are the assets used in the website of high quality?  Is the placement of text, images, videos, sounds, maps suitable?  Does it match up with the proposed design?  Is there no horizontal scrolling?  Is it consistent? Do the logo, banner, navigation bar and colour scheme remain in the same place on each page?	The weaknesses of a document are anything that does not make it suitable or effective for its purpose. Some common examples of weaknesses to look out for in your website p are:  It fails to meets some parts of the client requirements.  It is not suitable for the target audience.  The links are broken and do not take you to the suggested pages.  The assets used in the website are of poor quality.  The placement of text, images, videos, sounds and maps are poor and may distract the reader from the focal point of the website.  It does not match with the proposed design due to issues with using the software.  It is not consistent and the logo, banner, navigation bar and colour either change each page or move around too much.  There is horizontal scrolling.
4: Improvements	Examples	Examples
Once you have picked out some of the weaknesses you will then need to suggest how to improve those weaknesses.  An improvement is anything that would make the Comic Strip more suitable for its purpose and target audience.  When writing your suggestions for improvement follow the steps below:  Choose one of the weaknesses you may have already mentioned.  Make sure you have said why it is a weakness in relation to the client requirements purpose and target audience.	The client stated that my website should include at least five pages, this part of the criteria that the client set was easy to follow and I have fully achieved the creation of these five pages. The navigation of my website is efficient and effective as I have linked it to internal pages and all the links function correctly. I particularly like my logo as I believe that it fits in with the colour scheme correctly and I like the font of the text on my logo. To improve my website, I could rearrange the layout of images and text on the Acts page because it currently has odd looking spaces between the images and the text looks like it is squashed in the middle.	The use of colour in my website is a vital item to get right because it is one of the main things you see when you open a website. Green is one of the main colours in the website because it represents nature and energy. Green helps to add to the Eco theme and the festival. Also blue was include which represents the sky and open spaces, like the festival. This was successful because it added to the website feel and met the brief. I think that I ticked all the boxes outlined in the Client Brief and used suitable pictures, videos, sounds and other interactive elements to engage that wide target audience. I would be interested in surveying the users of the
•	· · ·	

looks better. I could also change the colour scheme to incorporate

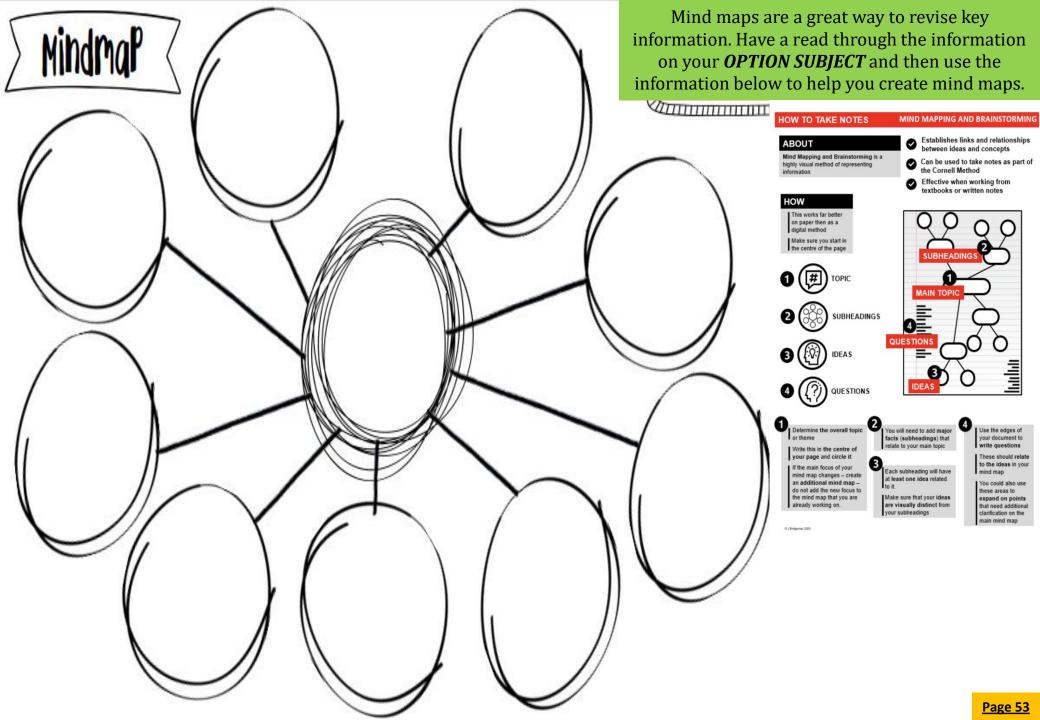
some green or blue to help it fit the eco theme (trees, sky, plants

etc), and therefore help the branding and image left in the user's

mind

improve the site greatly because getting real life feedback would

help streamline the experience of using the site.



### Fancy some additional Class Charts points? Impress your teachers with any of these BHAmazing pieces of vocabulary, and they will award you extra CC points. Challenge: Can you use them in any sentences and show a member of the Senior Leadership Team? Word List 1 Word List 2 **Word List 3** Word List 4 Word List 5 Word List 6 Word List 7 Myriad (adjective) -Caustic (adjective) -Tension (noun) -**Oppressed** (adjective) **Omniscient** Sentimental Metamorphosis mean / harsh feeling of (adjective) - all-(adjective) -- subjected to (noun) - a many Elucidate (verb) - to change / Assert (verb) - state knowing emotional cruel anxiety or transformation a fact make clear **Gullible** (adjective) -Bawdy (adjective) mistreatment nervousness confidently or Esoteric (adjective) -**Oblivious** (adjective) **Subservient** (adjective) Abhorrent believes things rude or vulgar forcefully easily (adjective) likely to only be **Hypermasculine** - obedient / - unaware repulsive Egregious understood by a Naïve (adjective) -**Supercilious** (adjective) submissive Abhor (verb) - to (adjective) small number overly masculine Exploit (verb) - to use Inexperienced / (adjective) hate Atavistic (adjective) someone for your outstandingly or people / unaware arrogant Fate (adjective) bad obscure **Pretentious Tvrannical** has own good destiny **Tenuous** (adjective) -(adjective) - a characteristics of Epiphany (noun) - a **Erroneous** (adjective) -**Integra**l (adjective) (adjective)weak or fragile cruel dictator sudden arrogant an earlier **Perfunctory Pompous** (adjective) Brazen (adjective) generation realization important wrong Demise (noun) - a Engender (verb) bold, shameless Troglodytic (adjective) Facade (noun) - a front (adjective) arrogant person's **Privileged** (adjective) Elusive (adjective) carried out with - like a caveman (to 'wear a to cause downfall or Employ (verb) - to minimal effort - having an Apathetic (adjective) facade' means mysterious death Moral (noun) - a Chauvinistic indifferent / lazv make use of advantage over vou wear a Ridicule (verb) - to Salient (adjective) lesson other, usually **Segregated** (adjective) metaphorical (adjective) make fun of Autonomy (noun) wealth - separated mask, covering most has an attitude Deride (verb) - to independence **Compassionate Misogynistic** noticeable and of superiority to your true **Assertive** (adjective) mock important (adjective) opposite sex (adjective) emotions or - confidence sympathetic **Materialistic** hateful towards Contempt (noun) -Advantageous character) **Conceited** (adjective) **Vindictive** (adjective) Microcosm (noun) - a hate (adjective) -(adjective) women Hysterical - excessively - spiteful, cruel Choleric (adjective) smaller providing an cares for (adjective) advantage / proud / vain **Duplicitous** objects and community quick-tempered, uncontrolled beneficial **Superior** (adjective) -(adjective) commodities angry which represents Galvanize (verb) having two **Prophetic** (adjective) Secular (adjective) a larger one emotion better than to shock or sides - able to not religious Aloof (adjective) excite **Narcissistic** stand-offish accurately predict **Degenerate** (adjective) someone into (adjective) -Impulsive (adjective) - disgusting action self-obsessed **Substantiate** (verb) - rash / **Depraved** (adjective) -

careless

- to provide

evidence

immoral / evil

Feral (adjective) - wild

## My BHAmazing vocabulary, written in sentences: 1. **3. 5**. 6. **7.**